

# MEMORY GAUGES

DataCan<sup>®</sup>  
Product Catalog



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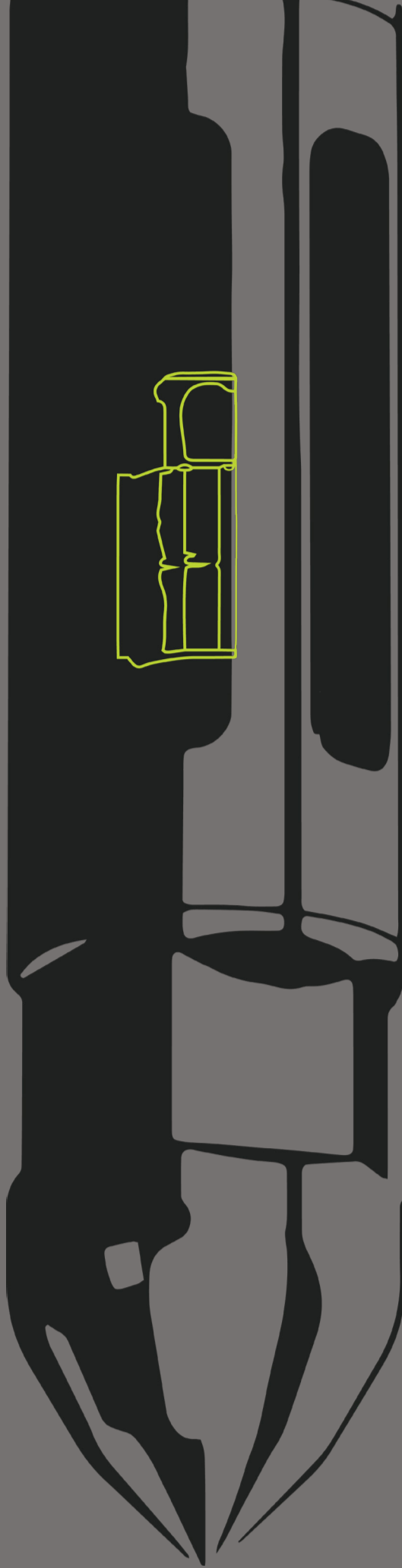
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### Benefits

Quartz memory gauges have superior pressure data quality and range. For downhole temperatures above 135 °C we prefer the stability and reliability of quartz data.

The pressure data resolution from a quartz sensor is 50 times greater than a piezoresistive solution (0.00006% quartz vs 0.0003% piezo full-scale resolution).

Quartz pressure gauges are excellent for long term high-temperature operations where derivative calculations are critical. A quartz tools response will remain stable up to 200 °C. If it wasn't for the cost of quartz and their dampened response, they would be the preferred choice for every solution.

### Features

- Downhole pressure and temperature measurement
- Pressure up to 30,000 psi maximum
- Accuracy of up to 0.020% full scale
- Resolution of 0.00006% full scale
- Temperature up to 200 °C maximum
- Accuracy of up to 0.25 °C
- Resolution 0.005 °C
- 8 million data sets of memory
- 1 second to once a day sampling

### Specifications

	Pressure	Temperature
Accuracy Up To	0.02 % F.S.	0.2°C
Resolution	0.00006% F.S	0.005°C
Drift	≤ 2 psi/year	< 0.1°C/year
Capacity	8 Million Samples	
Communication	USB	

QUARTZ

# 0.75" DCQ - Inconel 718

## Quartz

### Application

The shortest slimhole 0.75" diameter gauge available. Quartz Gauge uses a AA battery as its power source. Limited space is available for gauge carrier, coiled tubing, and DST operations and the AA battery is the smallest form factor available for powering a quartz tool. Hence, a 0.75" OD is currently the smallest diameter quartz memory tool.

\*Make sure to use the battery calculator in the DataCan download software to determine maximum job length for specific applications.

### Benefits

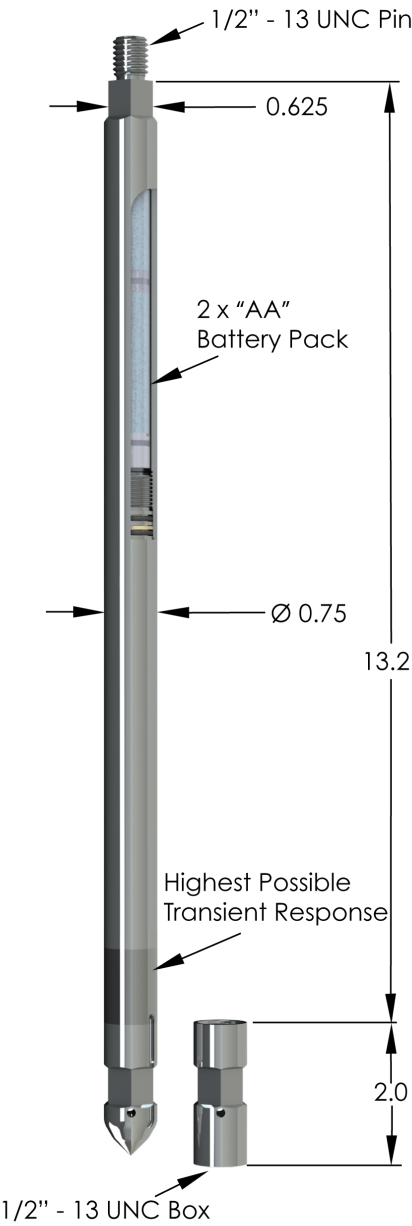
The world's smallest quartz gauge provides operators with the highest data stability and resolution. DataCan recommends quartz gauges in all wells with bottom hole temperatures above 135°C.

### Features

- 15" Long
- 0.00006% Full-Scale Resolution
- 200°C
- 8 Million Sample Capacity
- Inconel 718 and MP35N – NACE MR0175
- Electron Beam Welded
- Fast Temperature Response
- Easy to Use Software

### 0.75" DCQ - Inconel 718

Pressure	Temperature	Part No.
10,000 psi	150°C	110735
16,000 psi		110736
20,000 psi		110737
10,000 psi	177°C	110738
16,000 psi		110739
20,000 psi		110740
10,000 psi	200°C	110741
16,000 psi		110742
20,000 psi		110743



## Accessories

Accessory Type	Part No.
Bullnose SS316	110755
Crossover 0.5-13 UNC SS316	110756
Crossover 0.25 NPT SS316	110757
Battery Barrel 2 X "AA" Inconel 718	100755
Pelican Case Assembly	100444
USB Download Cable	100682
Redress Kit Viton 90	100445
Redress Kit Aflas 7182B	100446
Redress Kit Chemraz 510	100447
Battery Tester	100876

## Compatible Batteries

	Max Temp	Part No.
2 x AA	150°C	100411
	165°C	100806
	180°C	100807
	200°C	100412

## Specifications

	Pressure	Temperature
Accuracy Up To	0.02 % F.S.	0.2°C
Resolution	0.00006% F.S.	0.005°C
Drift	≤ 2 psi/year	< 0.1°C/year
Capacity	8 Million Samples	
Communication Method	USB	



# 125W Quartz

## Application

The 1.25" Quartz DCQ is 16 inches long and has a collapse pressure rating of 30,000psi. The 1.25" DCQ is characterized by its electron beam welded sensor, super seal technology connection, and maximized transient response. The circuit is shock-mounted in a long-term reliability package to protect your data from vibration and drops producing extend life electronics.

\*Make sure to use the battery calculator in the DataCan download software to determine maximum job length for specific applications.

## Benefits

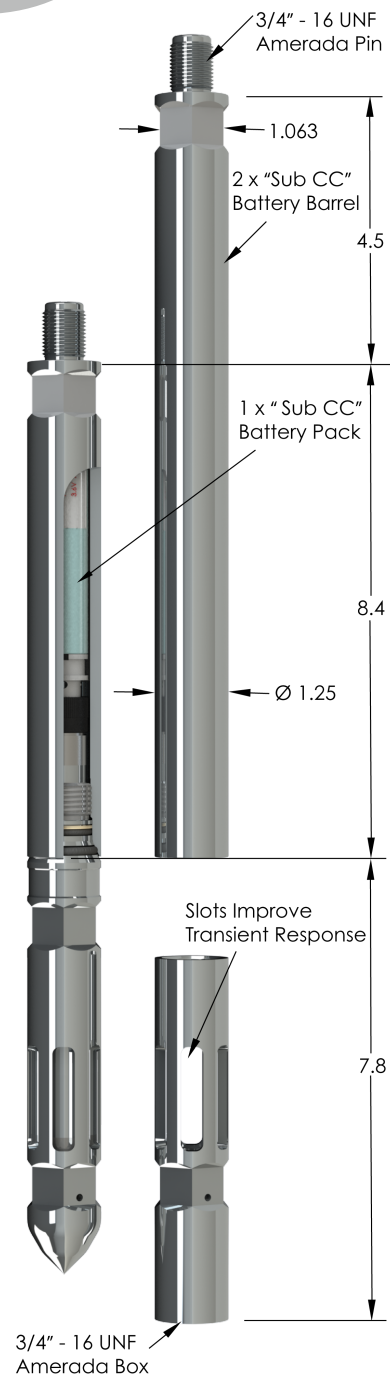
Quartz gauges provide operators with the highest possible data stability and resolution. DataCan recommends quartz gauges in wells with bottom hole temperatures above 135°C.

## Features

- 16" Long
- 0.00006% Full-Scale Resolution
- Super Seal Technology
- 30,000psi & 200°C
- 8 Million Sample Capacity
- Inconel 718 or MP35N – NACE MR0175
- Fast Response

## 1.25" Quartz DCQ - Inconel 718

Pressure	Temperature	Part No.
10,000 psi	150°C	110453
16,000 psi		110454
20,000 psi		110456
10,000 psi	177°C	110457
16,000 psi		110458
20,000 psi		110459
10,000 psi	200°C	110460
16,000 psi		110461
20,000 psi		110462



## Accessories

Accessory Type	Part No.
Bullnose Stainless Steel	110593
Crossover 0.75-16 Stainless Steel	110594
Battery Barrel 1 X "Sub CC" Inconel 718	110733
Battery Barrel 2 X "Sub CC" Inconel 718	110734
USB Download Cable	100682
Redress Kit Viton 90	100908
Redress Kit Aflas	100237
Redress Kit Chemraz	100238
Battery Tester	100876

## Compatible Batteries

Size	Max Temp	Part No.
Sub CC	150°C	100808
	165°C	100226
	180°C	100885
	200°C	100227
2 x Sub CC	150°C	101660
	165°C	101000
	180°C	102023
	200°C	101001

## Specifications

	Pressure	Temperature
Accuracy Up To	0.02 % F.S.	0.2°C
Resolution	0.00006% F.S.	0.005°C
Drift	≤ 2 psi/year	< 0.1°C/year
Capacity	8 Million Samples	
Communication Method	USB	



# 125W Quartz II

## Application

The 1.25" Quartz DCQ II has the largest internal diameter barrel volume available, which allows for a larger battery to energize the gauge for extra-long term tests. The DCQ II Quartz Gauge was specifically designed for long term gauge hanger applications in extreme environments. 120 days of downhole quartz pressure data in 160°C gas wells. We have long term downhole experience with this tool in Saudi Arabia, the North Sea, and the Eagleford Shale.

\*Make sure to use the battery calculator in the DataCan download software to determine maximum job length for specific applications.

## Benefits

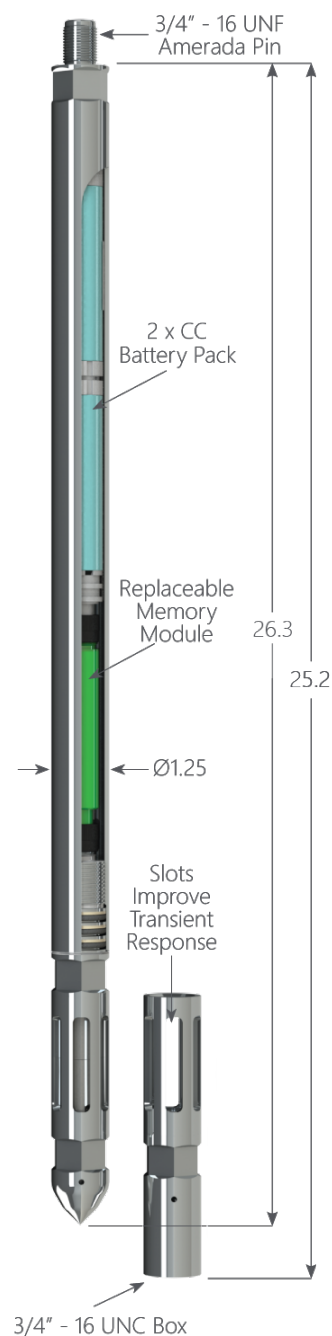
The extended battery pack and tripple o-ring sealing solution on the DCQ 2 were specifically designed to capture data in long term high-temperature oil and gas wells. The DCQ 2 is our premier extended duration quartz gauge.

## Features

- Designed For Extra Long Term Tests
- One Leak Path
- Metal to Metal C-Ring
- Triple O-Ring
- 200°C Option
- 8 Million Sample Capacity
- Inconel 718 or MP35N – NACE MR0175
- Fast Response

## 1.25" Quartz DXB II - Inconel 718

Pressure	Temperature	Part No.
10,000 psi	150°C	100017
16,000 psi	150°C	101695
16,000 psi	177°C	101696
16,000 psi	200°C	101697
20,000 psi	177°C	101698
20,000 psi	200°C	101699



## Accessories

Accessory Type	Part No.
Replaceable Memory Module LTR 125°C	104960
Replaceable Memory Module LTR 177°C	104657
Replaceable Memory Module LTR 200°C	104833
Welded Bullnose Stainless Steel	102321
Welded Crossover 0.75-16 Stainless Steel	102323
Crossover 0.25 NPT Stainless Steel	100130
Battery Barrel 2 X 'CC' Inconel 718	104145
USB Download Cable	100682
Pelican Case Assembly	101686
Redress Kit Viton 90	101693
Redress Kit Aflas	101694
Redress Kit Chemraz 510	101685
Battery Tester	100876

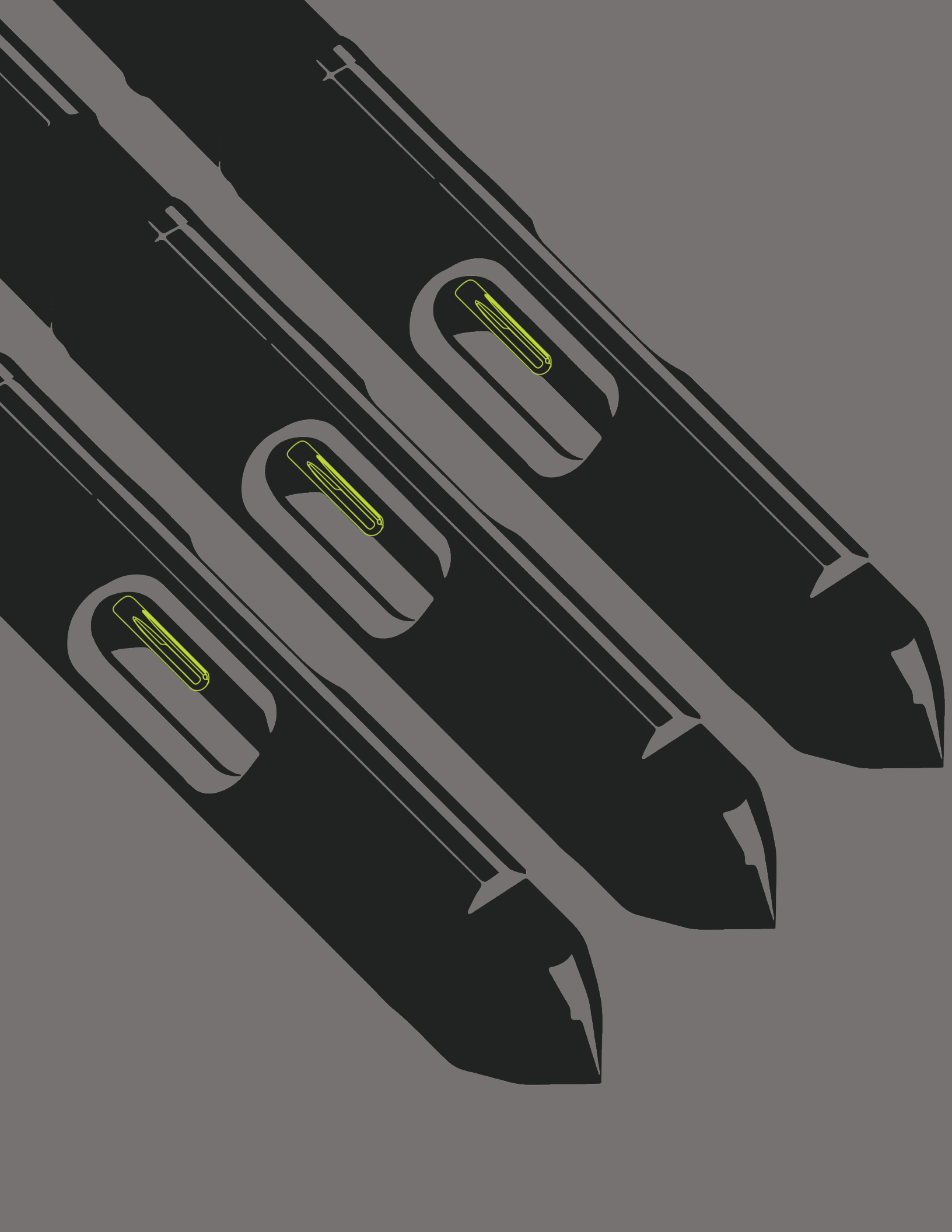
## Compatible Batteries

Size	Max Temp	Part No.
2 x CC	150°C	102780
	165°C	102927
	180°C	102928
	200°C	102929
3 x CC	150°C	102381
	165°C	102937
	180°C	102938
	200°C	102939

## Specifications

	Pressure	Temperature
Accuracy Up To	0.02 % F.S.	0.2°C
Resolution	0.00006% F.S.	0.005°C
Drift	≤ 2 psi/year	< 0.1°C/year
Capacity	8 Million Samples	
Communication Method	USB	







## Benefits

Piezo memory gauges are economical. The piezoresistive sensor can compete with quartz on accuracy and stability. However, compromises in data resolution need to be made (0.0003% piezo vs 0.00006% quartz full-scale resolution).

Piezo pressure gauges are excellent measurement solutions in most downhole environments. However, we prefer to limit their long-term use to temperatures below 140 °C. For short term applications, the sensor and tools can survive at 177 °C.

Due to their small size, piezo gauges respond quickly to transients and use less energy. The lower energy budget allows operators to place piezo memory tools downhole for extended durations.

## Features

- Downhole pressure and temperature measurement
- Pressure up to 30,000 psi maximum

## Specifications

	Pressure	Temperature
Accuracy UpTo	0.03 % F.S.	0.5°C
Resolution	0.0003% F.S.	0.005°C
Drift	< 3 psi/year	< 0.1°C/year
Capacity	10 Million Samples	
Communication	USB	

ONE PIE

# 0.5" Piezo

## Application

The 0.50" size is great for applications with extreme space restraints. AAA battery packs are used in the 0.50" OD tool, which means the tool can only be run for a short period of time.

\*Make sure to use the battery calculator in the DataCan download software to determine maximum job length for specific applications.

## Benefits

The smallest downhole pressure gauge available. Fast transient response with the temperature sensor being very close to the wellbore.

## Features

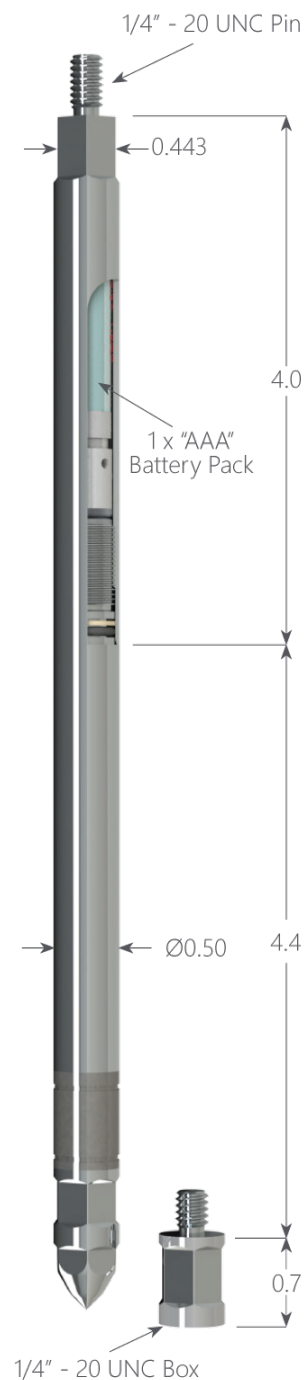
- 10 Million Sample Capacity
- Up to 470 Hz Sample Rate Option
- Inconel 718 - NACE MR0175

## 0.50" Piezo - Inconel 718

Pressure	Temperature	Part No.
6,000 psi	150°C	109581
10,000 psi		109582
15,000 psi		109583

## Accessories

Accessory Type	Part No.
Bullnose SS316	104312
Crossover 0.25-20 UNC SS316	104313
Battery Barrel 1 X "AAA" Inconel 718	104314
Pelican Case Assembly	104319
USB Download Cable	100682
Redress Kit Viton 90	104321
Redress Kit Aflas 7182B	104322
Redress Kit Chemraz 510	104323
Battery Tester	100876



## Compatible Batteries

Size	Max Temp	Part No.
AAA	150°C	104284
	165°C	104287

## Specifications

	Pressure	Temperature
Accuracy Up To	0.03 % F.S.	0.5°C
Resolution	0.0003% F.S.	0.005°C
Drift	< 3 psi/year	< 0.1°C/year
Capacity	10 Million Samples	
Communication Method	USB	



# 0.75" Piezo

## Application

The 0.75" size is our most economical design for a downhole pressure gauge. This package works well for gauge carrier, coiled tubing, and DST operations. AA battery packs are used in the 0.75" OD tools.

\*Make sure to use the battery calculator in the DataCan download software to determine maximum job length for specific applications.

## Benefits

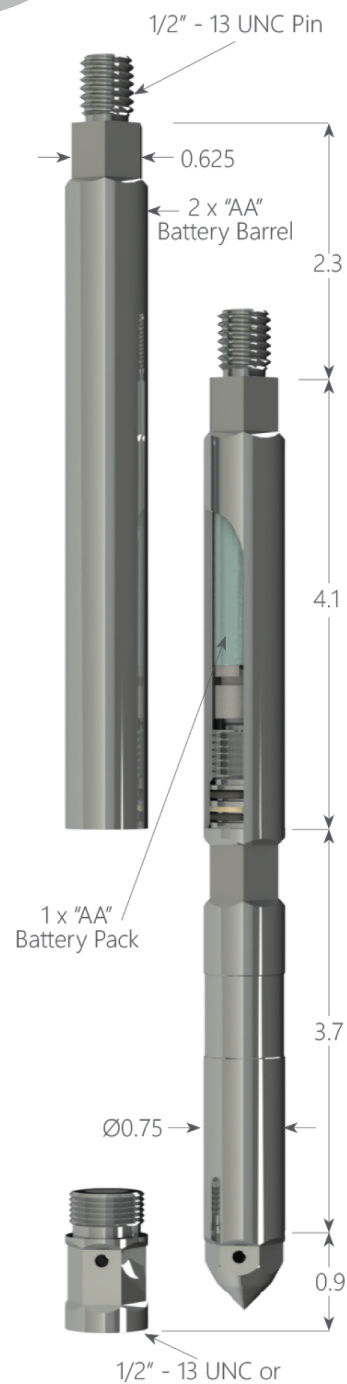
The 0.75" Piezo pressure gauge is characterized by its o-ring sealed sensor; a very simple and reliable design. This tool will survive multiple high shock loads downhole including; jarring, setting locks, and perforation events. Monitoring packer seals and shifting sleeves on multi-stage fracture monitoring jobs are common uses for this tool design.

DataCan piezo gauge design is one of the smallest most compact designs in the industry, which ultimately helps decrease the cost of the tool. DataCan piezo gauges also have excellent efficiency, meaning the battery life of the tool is just as good, if not better than competitors.

DataCan's download software, complete with battery calculator, allows you to program your tool, graph your data, and create a report for your customer.

## Features

- 10 Million Sample Capacity
- Up to 470 Hz Sample Rate Option
- Inconel 718 – NACE MR0175
- Easy to use software
- Durable shock-mounted circuit



## 0.75" Piezo - Inconel

Pressure	Temperature	Part No.
750 psi	100°C	104325
1,500 psi	120°C	104326
3,000 psi	150°C	104327
6,000 psi		104328
10,000 psi	177°C	104329
15,000 psi		104330
20,000 psi		104331

## Accessories

Accessory Type	Part No.
Bullnose SS316	100703
Crossover 0.5-13 UNC SS316	100704
Battery Barrel 1 X "AA" Inconel 718	100702
Battery Barrel 2 X "AA" Inconel 718	100755
Pelican Case Assembly	100756
USB Download Cable	100682
Redress Kit Viton 90	100445
Redress Kit Aflas 7182B	100446
Redress Kit Chemraz 510	100447
Battery Tester	100876

## Compatible Batteries

Size	Max Temp	Part No.
AA	150°C	100408
	165°C	100804
	180°C	100805
	200°C	100409
2 x AA	150°C	100411
	165°C	100806
	180°C	100807
	200°C	100412

## Specifications

	Pressure	Temperature
Accuracy Up To	0.03 % F.S.	0.5°C
Resolution	0.0003% F.S.	0.005°C
Drift	< 3 psi/year	< 0.1°C/year
Capacity	10 Million Samples	
Communication Method	USB	

# 1.0" Gaslift Gauge

## Application

The 1.0" side pocket welded piezo memory gauge is shaped like a standard gas lift dummy valve, which allows the customer to deploy the memory gauge the same way you would run a gas lift valve in a one-inch side pocket mandrel with a Bk-2 style latch. 2 x AA battery packs are used in the 1.0" OD side pocket gauge.

\*Make sure to use the battery calculator in the DataCan download software to determine maximum job length for specific applications.

## Benefits

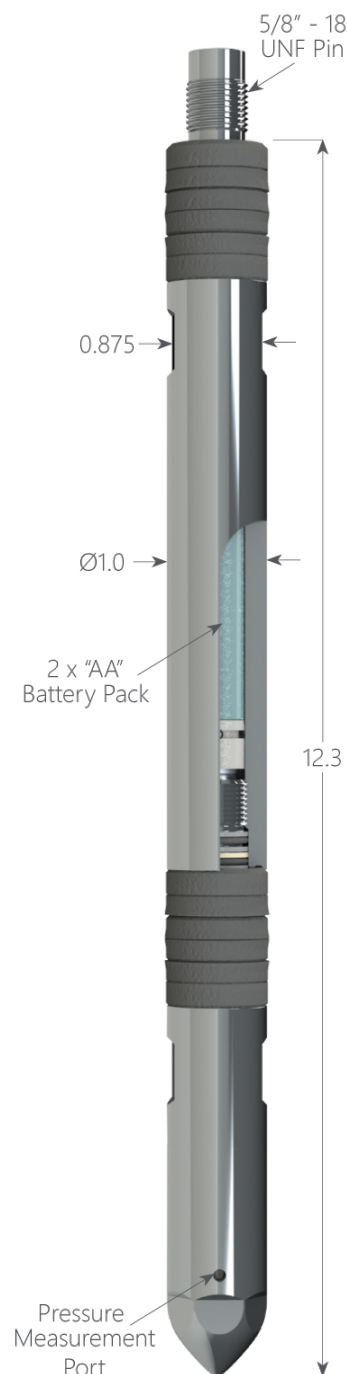
The biggest benefit of the 1.0" side pocket piezo gauge is a customer can deploy a gauge without interfering with the wellbore. The Side Pocket Gauge has shock mounted electronics which increases the reliability when kicking over and jarring the latch into the side pocket.

## Features

- SS17-4 or Inconel 718
- 10 Million Sample Capacity
- Welded Sensor
- High Shock Mounted Circuit

## 1.0" Side Pocket Welded Piezo - Tubing - SS17-4

Pressure	Temperature	Part No.
1,500 psi	120°C	103660
3,000 psi		103661
6,000 psi	150°C	103662
10,000 psi		103663
15,000 psi		103664
10,000 psi	177°C	103665
15,000 psi		103666



## 1.0" Side Pocket Welded Piezo - Tubing - Inconel 718

Pressure	Temperature	Part No.
1,500 psi	120°C	103650
3,000 psi	150°C	103651
6,000 psi		103652
10,000 psi		103653
15,000 psi		103654
10,000 psi	177°C	103655
15,000 psi		103656

## Accessories

Accessory Type	Part No.
Pelican Case Assembly	100783
Top Latch SS17-4	100149
Top Latch Inconel 718	100782
Bullnose SS17-4	103187
Battery Barrel 2 x "AA" SS17-4	103189
Battery Barrel 2 x "AA" Inconel 718	103193
Packing Sweet/Sour	100046
Redress Kit Viton 90	104411
Redress Kit Aflas 7182B	104409
Redress Kit Chemraz 510	104410
Battery Tester	100876

## Compatible Batteries

Size	Max Temp	Part No.
2 x AA	150°C	100411
	165°C	100806
	180°C	100807
	200°C	100412

## Specifications

	Pressure	Temperature
Accuracy Up To	0.03 % F.S.	0.5°C
Resolution	0.0003% F.S.	0.005°C
Drift	< 3 psi/year	< 0.1°C/year
Capacity	10 Million Samples	
Communication Method	USB	

# 1.25" Piezo III

## Application

The 1.25" Piezo III pressure gauge is our workhorse gauge for monitoring offset fractures, build-ups, drawdowns, DFIT's, isolation tests, and simple gradient surveys. The 1.25" diameter barrel allows for the use of "C" cell batteries for extended duration tests.

\*Make sure to use the battery calculator in the DataCan download software to determine maximum job length for specific applications.

## Benefits

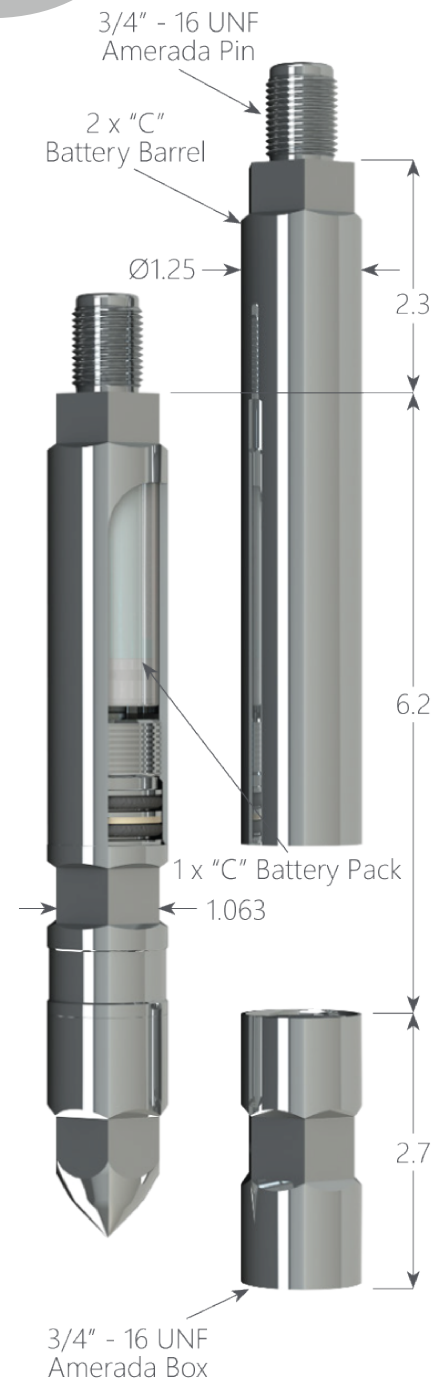
This gauge has a welded piezoresistive sensor and a shock-mounted high-reliability circuit board. The new circuit comes with a 10 million sample capacity and a super low power real-time clock. The real-time clock allows us to put the tool to sleep and reduce the power consumption of the tool over extended periods.

## Features

- 10 Million Sample Capacity
- Welded Pressure Sensor
- Higher Reliability – Shock Mounted Electronics
- Up to 470 Hz Sample Rate Option
- Inconel 718 – NACE MR0175

## 1.25" Welded Piezo III - Inconel 718

Pressure	Temperature	Part No.
750 psi	100°C	108150
1,500 psi	120°C	108151
3,000 psi	150°C	108152
6,000 psi		108153
10,000 psi	177°C	108154
15,000 psi		108155
20,000 psi		108156
25,000 psi		108157





## Accessories

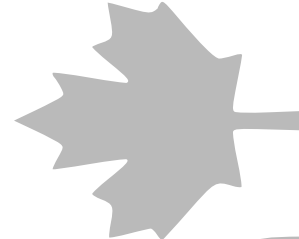
Accessory Type	Part No.
Bullnose SS316	101238
Crossover 0.75-16 UNF SS17-4	101239
Battery Barrel 1 X "C" Inconel 718	100485
Battery Barrel 2 X "C" Inconel 718	100486
Pelican Case Assembly	100501
Extended Pelican Case Assembly	103467
USB Download Cable	100682
Redress Kit Viton 90	100911
Redress Kit Aflas 7182B	101002
Redress Kit Chemraz 510	101003
Battery Tester	100876

## Compatible Batteries

Size	Max Temp	Part No.
C	150°C	100671
	165°C	100499
	180°C	100500
1 x CC	150°C	101010
	165°C	100989
	180°C	100814

## Specifications

	Pressure	Temperature
Accuracy Up To	0.03 % F.S.	0.5°C
Resolution	0.0003% F.S.	0.005°C
Drift	< 3 psi/year	< 0.1°C/year
Capacity	10 Million Samples	
Communication Method	USB	



Canada

# 1.375" Piezo IV

## Application

This tool was designed for extremely harsh environments, both physically and chemically. This downhole pressure gauge is often hung below the strainer on a rod lift pump or below plugs during an offset fracture job. When running the tool below a rod pump, the operator captures the reservoir and artificial lift performance data without the cost slickline. When the pump dies, the tool is recovered for free and semi-permanent data is evaluated post mortem.

\*Make sure to use the battery calculator in the DataCan download software to determine maximum job length for specific applications.

## Benefits

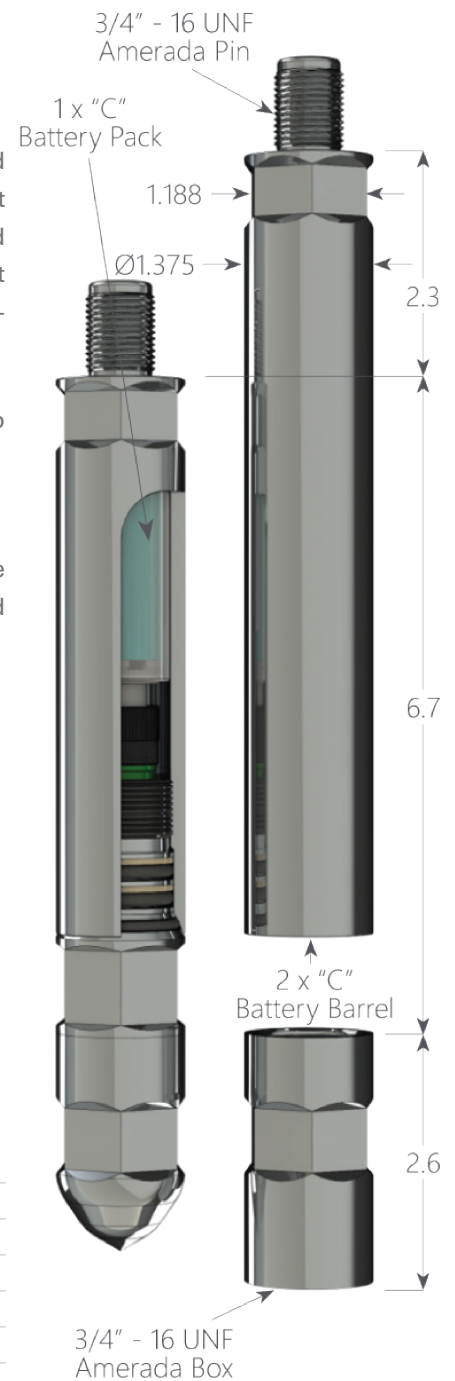
Made of Inconel 718, the Piezo 4 tool has a welded piezoresistive sensor and a triple super seal battery barrel connection with a lock battery pack. The circuit is designed with a real-time clock enabling the tool to go to sleep and extend battery life.

## Features

- 10 Million Sample Capacity
- Super Seal Triple Technology
- Electron Beam Welded Sensor
- Locking Battery Pack
- Shock Mounted Electronics
- 470 Hz Sample Rate Option
- Inconel 718 – NACE MR0175

## 1.375" Welded Piezo - Inconel 718

Pressure	Temperature	Part No.
750 psi	100°C	101255
1,500 psi	120°C	101254
3,000 psi	150°C	101253
6,000 psi		101252
10,000 psi	177°C	101251
15,000 psi		101250
20,000 psi		101249
25,000 psi		101248



## Accessories

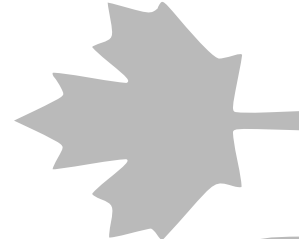
Accessory Type	Part No.
Bullnose SS316	101257
Crossover 0.75-16 UNF SS17-4	101258
Battery Barrel 1 X "C" Inconel 718	101266
Battery Barrel 2 X "C" Inconel 718	101650
Pelican Case Assembly	101548
Extended Pelican Case Assembly	103467
USB Download Cable	100682
Redress Kit Viton 90	101372
Redress Kit Aflas 7182B	101373
Redress Kit Chemraz 510	101374
Battery Tester	100876

## Compatible Batteries

Size	Max Temp	Part No.
C	150°C	101268
	165°C	101269
	180°C	101270
	200°C	101271
1 x CC	150°C	102362
	165°C	102240
	180°C	105234
	200°C	105235

## Specifications

	Pressure	Temperature
Accuracy Up To	0.03 % F.S.	0.5°C
Resolution	0.0003% F.S.	0.005°C
Drift	< 3 psi/year	< 0.1°C/year
Capacity	10 Million Samples	
Communication Method	USB	



Canada

# Piezo & RTD

## Application

Leak detection where there's a significant restriction in your wellbore. In this case, a 1" pack-off prevented regular 1.25" OD gauges from passing to the lower completion. Older fields often have pack-off restrictions making the 0.75" Piezo + RTD gauge a good choice for leak detection surveys.

## Benefits

Slimhole downhole pressure gauge with fast response external temperature probe. Excellent shock resistance with our new ballistics shock crystal design.

## Features

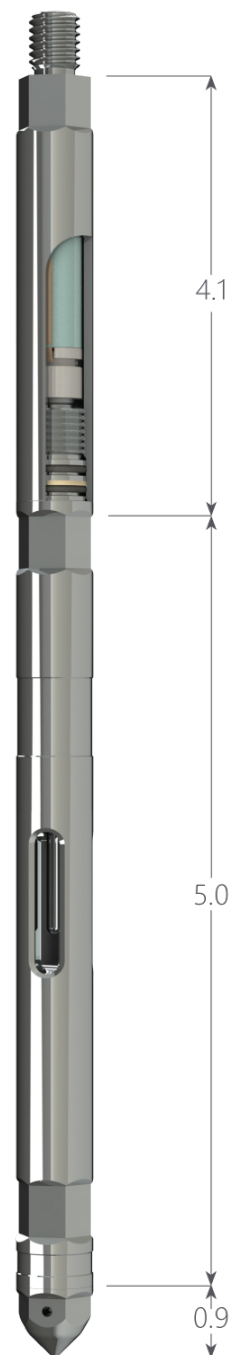
- External Fast Response Temperature Probe
- Electron Beam Welded Sensor
- 10 Samples/Second Standard
- 750,000 Sample Capacity

## 0.75" Welded Piezo RTD Memory Tool - Inconel 718

Pressure	Temperature	Part No.
750 psi	100°C	100747
1,500 psi	120°C	100748
3,000 psi	150°C	100749
6,000 psi		100750
10,000 psi	177°C	100751
15,000 psi		100752
20,000 psi		100753
25,000 psi		100754

## Accessories

Accessory Type	Part No.
Bullnose SS316	100703
Crossover 0.5-13 UNC SS316	100704
Crossover 1.0 NPT SS316	101021
Battery Barrel 1 X "AA" Inconel 718	100702
Battery Barrel 2 x "AA" Inconel 718	100755
Pelican Case Assembly	100756



## Accessories

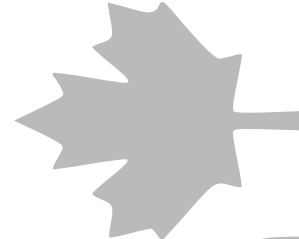
USB Download Cable	100682
Redress Kit Viton 90	100445
Redress Kit Aflas 7182B	100446
Redress Kit Chemraz 510	100447
Battery Tester	100876

## Compatible Batteries

Size	Max Temp	Part No.
AA	150°C	100408
	165°C	100804
	180°C	100805
	200°C	100409
2 x AA	150°C	100411
	165°C	100806
	180°C	100807
	200°C	100412

## Specifications

	Pressure	Temperature
Accuracy Up To	0.03 % F.S.	0.25°C
Resolution	0.0003% F.S.	0.005°C
Drift	≤ 3 psi/year	< 0.1°C/year
Capacity	750,000 Samples	
Communication Method	USB	



Canada

# 125W

## Piezo & RTD

### Application

Temperature gradient surveys are an excellent method of identifying leaks. Pair this tool with our memory depth unit to generate an LAS file. Identify leaks and monitor gaslift performance.

### Benefits

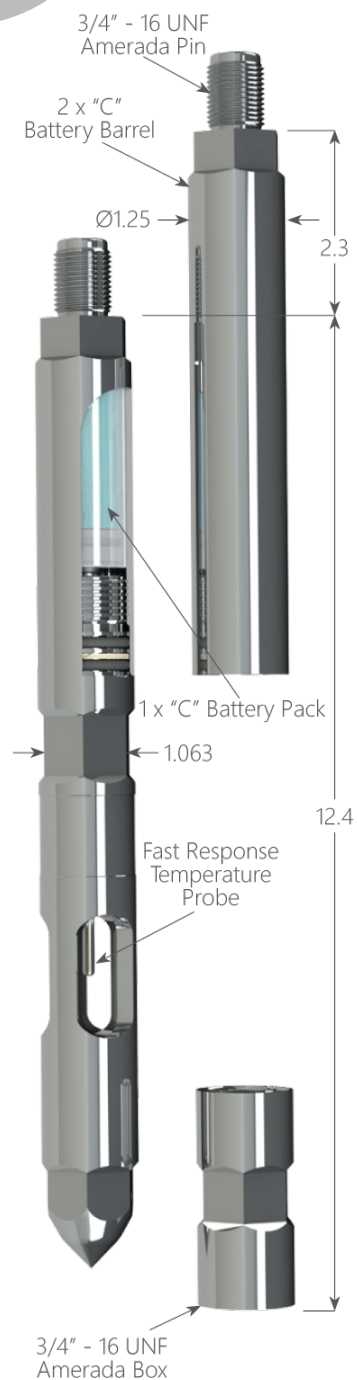
The fast response external temperature probe is a key measurement device for leak detection. Thermal gradients are identified. The tool also has a piezoresistive pressure sensor and we can merge the data with our memory depth box, cut passes and create an LAS report.

### Features

- Fast Response Temperature Probe (RTD)
- Welded Pressure Sensor
- Shock Mounted Electronics
- 10 Samples/Second Standard
- 750,000 Sample Capacity
- Inconel 718 – NACE MR0175

### 1.25" Welded Piezo with RTD - Inconel 718

Pressure	Temperature	Part No.
750 psi	100°C	103129
1,500 psi	120°C	104195
3,000 psi	150°C	104196
6,000 psi		104197
10,000 psi	177°C	104198
15,000 psi		104199
20,000 psi		104200



## Accessories

Accessory Type	Part No.
Bullnose SS316	101238
Crossover 0.75-16 UNF SS17-4	101239
Battery Barrel 1 X "C" Inconel 718	100485
Battery Barrel 2 X "C" Inconel 718	100486
Pelican Case Assembly	103467
USB Download Cable	100682
Redress Kit Viton 90	100911
Redress Kit Aflas 7182B	101002
Redress Kit Chemraz 510	101003
Battery Tester	100876

## Compatible Batteries

Size	Max Temp	Part No.
C	150°C	100671
	165°C	100499
	180°C	100500
1 x CC	150°C	101010
	165°C	100989
	180°C	100814

## Specifications

	Pressure	Temperature
Accuracy Up To	0.03 % F.S.	0.25°C
Resolution	0.0003% F.S.	0.005°C
Drift	< 3 psi/year	< 0.1°C/year
Capacity	750,000 Samples	
Communication Method	USB	



# 1.5" Gaslift Gauge Carrier

## Application

The 1.5" side pocket piezo carrier is shaped like a 1.5" gas lift valve and allows the customer to deploy the piezo carrier the same way you would run a 1.5" gas lift valve in a side pocket mandrel. The carrier holds a 3/4" piezo memory gauge and can measure either tubing or annulus pressure.

## Benefits

Deploy a gauge without interfering with the wellbore in your 1.5" sidepocket.

## Features

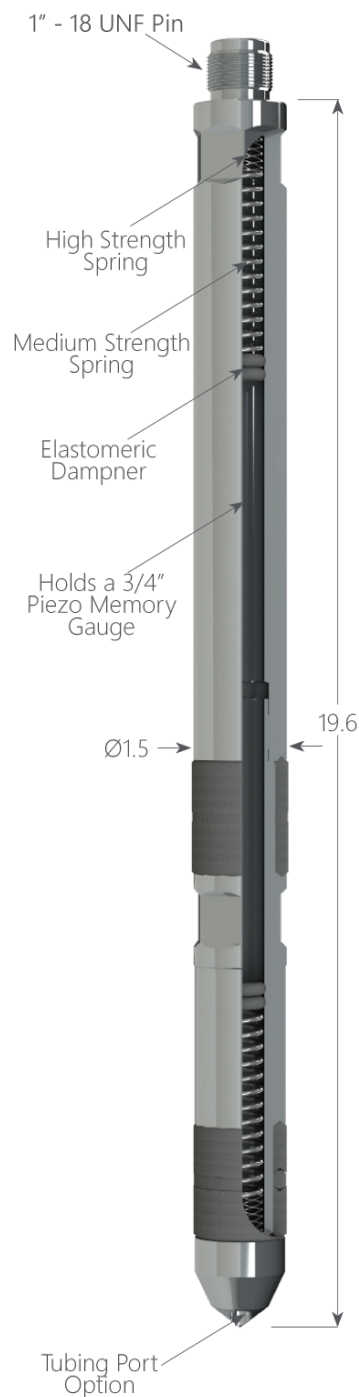
- Shock Mounts a 3/4" Gauge
- Annulus or Tubing Sensing
- SS17-4 or Inconel 718

## 1.5" Side Pocket Piezo Carrier

Port	Material	Part No.
Tubing	SS17-4	100157
Annulus		100163
Tubing	Inconel 718	100784
Annulus	NACE MR0175	100785

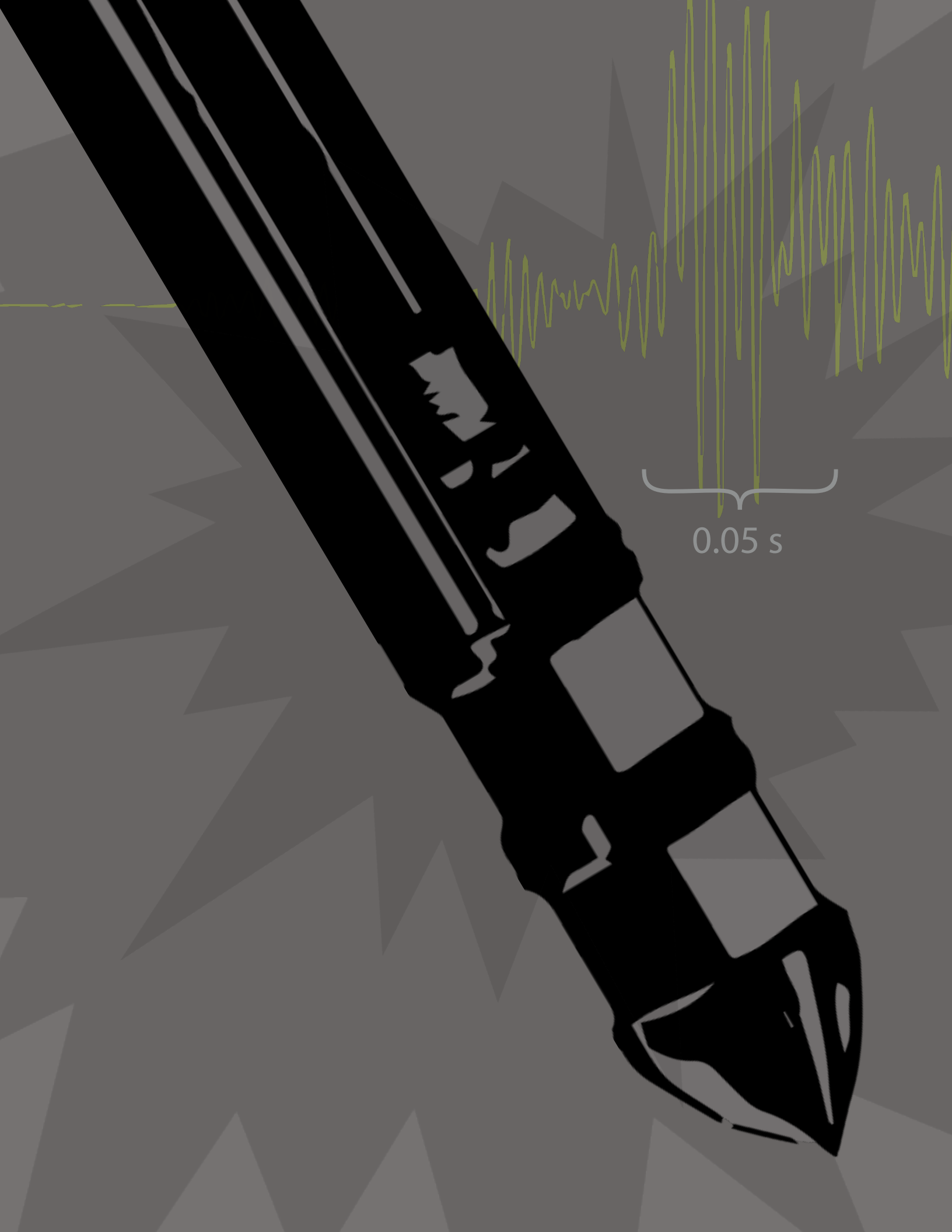
## Accessories

Accessory Type	Part No.
Pelican Case Assembly	100786
Top Latch SS316	100150
Top Latch Inconel 718	100787









## Benefits

DataCan's BurstTool is an ultra fast sampling memory tool that capture's a perforation event at a rate of 32,000 samples per second. As with all DataCan products, the BurstTool operates using the same simple and easy to use program and download software.

This gauge has non-volatile memory so your data won't be lost when you disconnect the battery pack.

The BurstTool will store up to 8 high-speed sampling events with one high-speed event capturing 500,000 samples or ~15 seconds of data on the Fast speed

## Features

- 32,000 Samples per second
- Non-volatile memory
- Super Seal Technology - 30,000 psi @ 1.25" OD
- Absolute Pressure Trigger (Level Trigger)
- Delta Pressure trigger (Window Trigger)
- Electron Beam Welded Sensor
- Extreme shock resistance
- Inconel 718 - NACE MR0175

## Specifications

	Pressure	Temperature
Accuracy UpTo	0.05% F.S.	0.5°C
Resolution	0.00003% F.S.	0.005°C
Drift	< 3 psi/year	< 0.1°C/year
Capacity	1 Million Samples (8 High Sample Rate Events)	
Communication	USB	

# BURST

# Burst Gauge

## Application

The 1.25" Burst Memory Pressure Gauge has ultra-fast sampling capabilities. This pressure gauge will capture a perforation event, at a rate of 32,000 samples per second. There are 3 sampling speeds:

Basic Speed = As fast as 1 sample / second

Intermediate Speed = 10,000 samples / second

High Speed = User Selectable 32,000 or 16,000 samples / second

The gauge has non-volatile memory, so the data will not be lost when you disconnect the battery pack. The Burst Tool can store up to 8 high speed sampling events. One high speed event will capture 500,000 samples, or ~15 seconds of data at the high speed. The Burst Tool can also store up to 1 million regular speed data samples. The Burst Tool works at temperatures up to 150°C and pressures up to 30,000 psi.

## Benefits

Highspeed event data is captured prior to, during, and after the perforation event.

A burst event capture can be initiated in three ways:

Normal = Change sample rates at pre-programmed time intervals

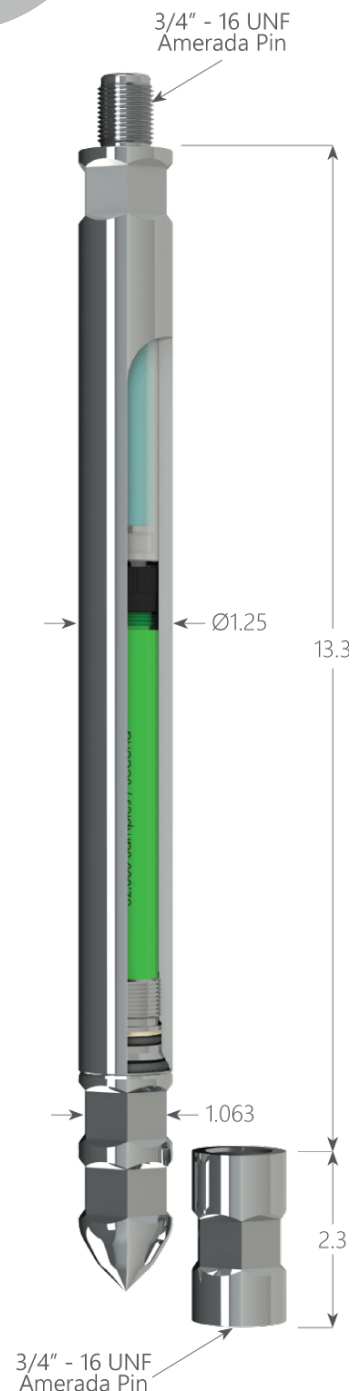
Absolute Pressure Trigger = Burst event capture starts at an absolute pressure setpoint

Delta Pressure Trigger = Burst event captured after a change in pressure over time

The sensor, electronics, sealing package, and battery have all been custom designed to withstand the perforation explosion.

## Features

- 32,000 Samples Per Second
- Non-volatile memory
- Super Seal Technology - 30,000 psi @ 1.25" OD
- Absolute Pressure Trigger (Level Trigger)
- Delta Pressure Trigger (Window Trigger)
- Electron Beam Welded Sensor
- Extreme shock resistance
- Inconel 718 – NACE MR0175



## 1.25" Burst Tool - Inconel 718

Pressure	Temperature	Part No.
20,000 psi	150°C	100414
25,000 psi		100415
30,000 psi		100413

## Accessories

Accessory Type	Part No.
Bullnose SS17-4	102632
Crossover 0.75-16 UNF SS17-4	102633
Battery Barrel 1 x "Sub CC" Inconel 718	100713
Battery Barrel 2 x "Sub CC" Inconel 718	101006
Pelican Case Assembly	100936
USB Download Cable	100682
Redress Kit Viton 90	100908
Redress Kit Aflas 7182B	100237
Redress Kit Chemraz 510	100238
Battery Tester	100876

## Compatible Batteries

Size	Max Temp	Part No.
2 x AA	150°C	105262
	165°C	105263
	180°C	105264

## Specifications

	Pressure	Temperature
Accuracy Up To	0.05 % F.S.	0.5°C
Resolution	0.0003% F.S.	0.005°C
Drift	< 3 psi/year	< 0.1°C/year
Sampling Speeds		
Slow Mode Sample Rate	1 Sample/Second	
Intermediate Sample Rate	10,000 Samples/Second	
Fast Sample Rate	Up to 32,000 Samples/Second	
Change in Sample Rate Options		
Normal	Rate change at pre-programmed intervals	
Absolute Pressure Trigger	Rate change at pre-programmed absolute setpoint	
Delta Pressure Trigger	Rate change after a pre-programmed change in pressure over time	
Memory		
Capacity	1 Million Samples (8 High Sample Rate Events)	
Communication Method	USB	

# 1.25" Shock Mitigator

## Application

Dampen and absorb the kinetic energy produced by the perforation event. Protect your downhole high-speed pressure gauge from perforation events.

## Benefits

Downhole Dampening

## Features

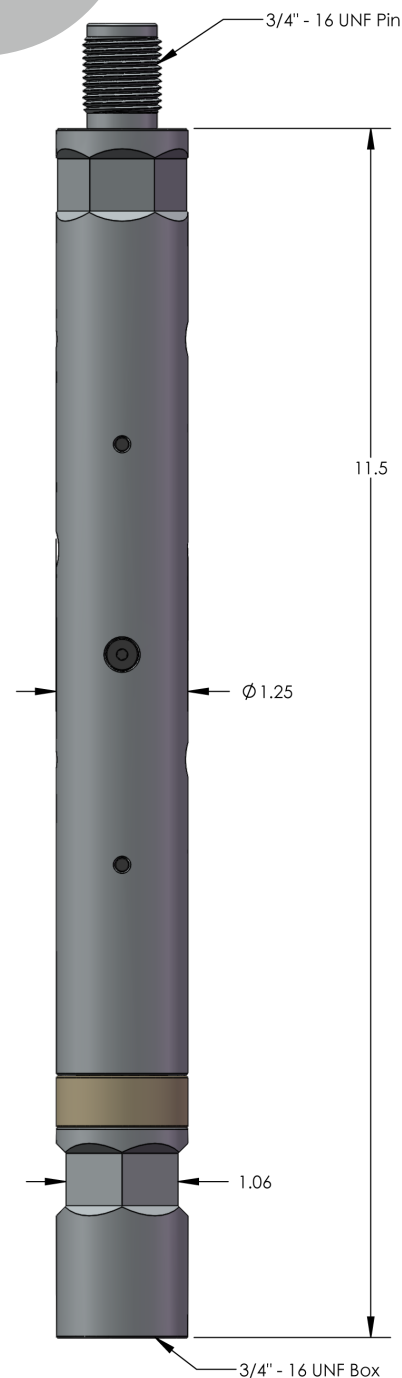
- Compact 1.25" OD
- Sweet or Sour Options
- Custom Pin or Box Connections Upon Request

## 1.25" Shock Mitigator

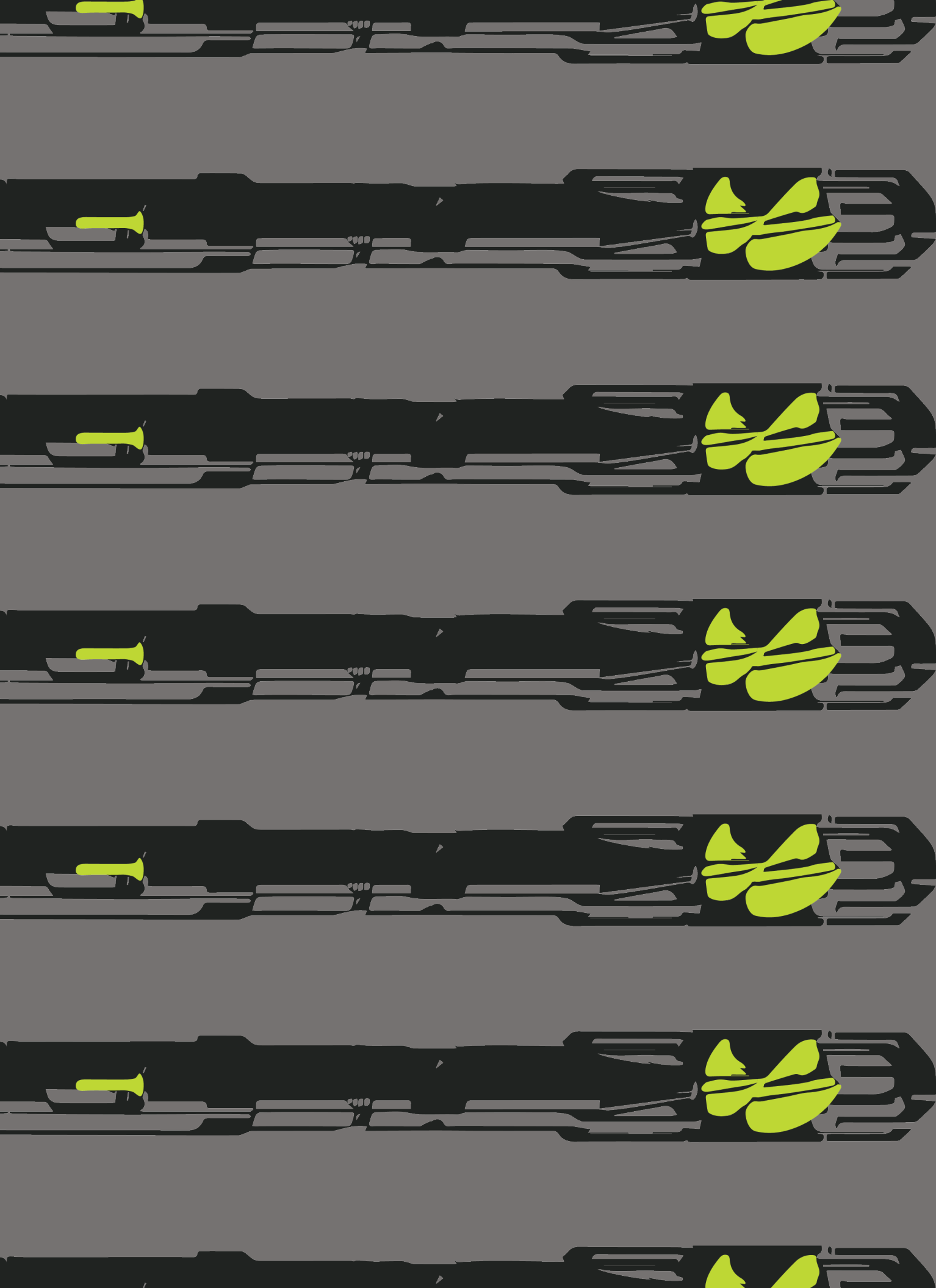
Assembly Type	Material	Part No.
Sweet Version	SS17-4	110431
Sour Version	Inconel 718	109129

## Specifications

Assembly Type	Maximum External Pressure
Sweet Version	30,000 psi (1,500 bar)
Sour Version	30,000 psi (1,500 bar)









## Benefits

The Mini Production Logging tool runs on slickline. Combine this tool with our Portable Depth Recorder (PMR), merge the data from the PMR using DataCan Program and Download into an LAS file.

## Features

- Pressure
- External Fast Response Temperature Probe
- Casing Collar Locator
- Compatible with Several Different Flowmeters
- Easy to Use
- Inconel 718 - NACE MR0175

## Specifications

	Pressure	Temperature
Accuracy	0.03% F.S.	0.5°C
Resolution	0.0003% F.S.	0.005°C
Drift	< 3 psi/year	< 0.1°C/year

### Casing Collar Locator

Detector Type	Electromagnetic
---------------	-----------------

### Flowmeter

Output	12 Pulses/Revolution
--------	----------------------

### Memory

Capacity	2 Million Samples
Communication Method	USB

# BLT

## Basic Production Logging Tool

### Application

The smart cablehead measures pressure, external temperature, and casing collars (CCL) in one simple easy to use tool. Both the RTD and piezo pressure sensors are electron beam welded. The basic production logging tool has a casing collar locator (CCL) that uses high strength, long life magnets for depth correlation. The “C” sized battery pack used to run this gauge is locking and large enough for long duration jobs.

### Benefits

The basic production logging tool runs on slickline. Combine this tool with our portable depth recorder (PMR), merge the data from the PMR using DataCan Program and Download into an LAS file.

### Features

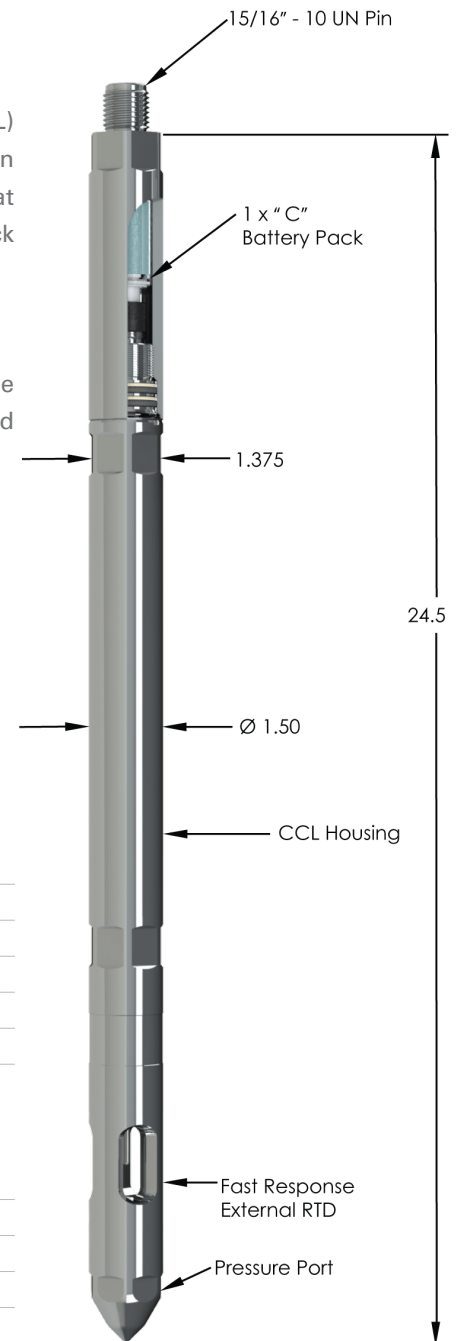
- Pressure
- External Fast Response Temperature Probe
- Casing Collar Locator
- Inconel 718 – NACE MR0175

### 1.5" Basic Production Logging Tool - Inconel 718

Pressure	Temperature	Part No.
3,000 psi	150°C	105143
6,000 psi		105144
10,000 psi		105112
15,000 psi	177°C	105145
20,000 psi		105146

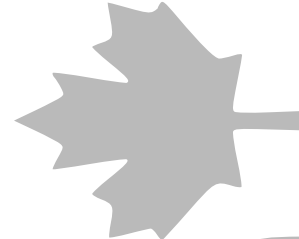
### Accessories

Accessory Type	Part No.
Bullnose SS316	105140
Crossover 15/16-10 UNC (5/8" Sucker Rod) SS316	105233
Pelican Case Assembly	105125
Redress Kit Viton 90	105126
Redress Kit Aflas 7182B	105127
Redress Kit Chemraz 510	105128



## Specifications

	Pressure	Temperature
Accuracy	0.03 % F.S.	0.5°C
Resolution	0.0003% F.S.	0.005°C
Drift	< 3 psi/year	< 0.1°C/year
Casing Collar Locator		
Detector Type	Electromagnetic	
Memory		
Sample Rate	0.1 Second to 1.82 Hours	
Capacity	2 Million Samples	
Communication Method	USB	



data

# Mini Production Logging Tool

## Application

This smart cablehead measures pressure, external temperature, flow rate, and casing collar locators (CCL) in a compact, easy to use memory tool. Compatible with all of our Lee flow meters. The Mini Production Logging Tool has an RTD sensor for fast temperature sensing. Both RTD and piezo pressure sensor are electron beam welded so the tool is less likely to leak. The Mini Production Logging Tool has a Casing Collar Locator (CCL) that uses high strength, long life magnets for depth correlation. It is compatible with the 5" or 7" fullbore spinner as well as the 1.375", 1.688" and 2.125" continuous spinner. The "C" sized battery pack used to run this gauge is locking and large enough for long duration jobs.

## Benefits

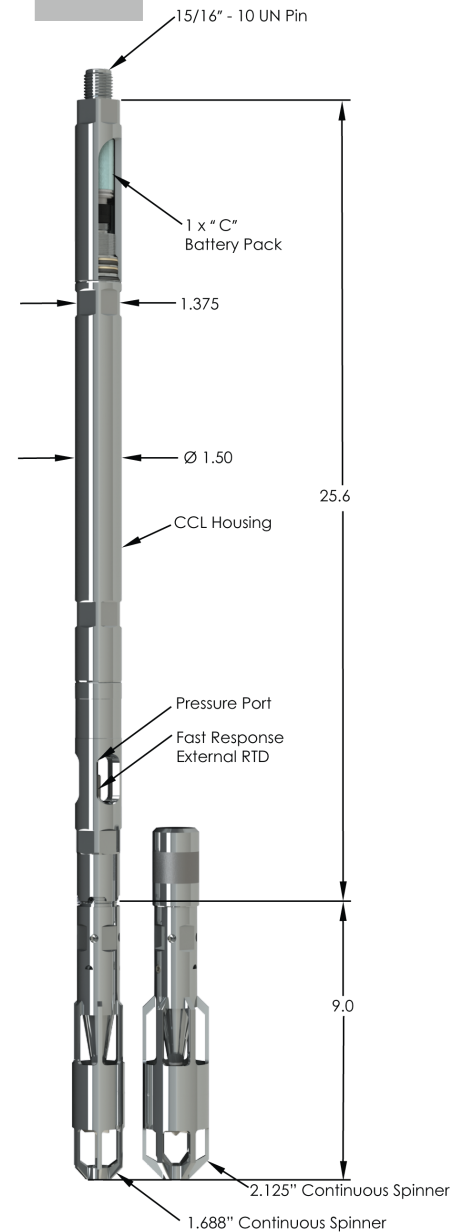
The Mini Production Logging tool runs on slickline. Combine this tool with our Portable Depth Recorder (PMR), merge the data from the PMR using DataCan Program and Download into an LAS file.

## Features

- Pressure
- External Fast Response Temperature Probe
- Casing Collar Locator
- Compatible with a Number of Different Flowmeters
- Easy to Use
- Inconel 718 – NACE MR0175

## 1.5" Basic Production Logging Tool - Inconel 718

Pressure	Temperature	Part No.
10,000 psi	150°C	107401
15,000 psi	177°C	107425



## Compatible Spinners

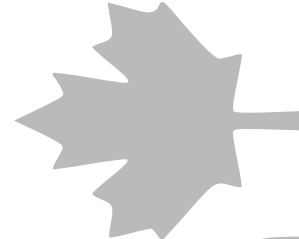
Spinner Type	Size	Version	Part No.
Fullbore Spinner	5"	Standard Service	AM005WA0002
		H2S Service	AM005WB0002
	7"	Standard Service	AM005WA0008
		H2S Service	AM005WB0008
Continuous Spinner	1.375"	Standard Service	AM005WA0003
		H2S Service	AM005WB0003
	1.688"	Standard Service	AM005WA0004
		H2S Service	AM005WB0004
	2.125"	Standard Service	AM005WA0007
		H2S Service	AM005WB0007

## Accessories

Accessory Type	Part No.
Battery Barrel 1 X "C" Inconel 718	105047
Pelican Case Assembly	105125
Redress Kit Viton 90	108527
Redress Kit Aflas 7182B	108528
Redress Kit Chemraz 510	108529

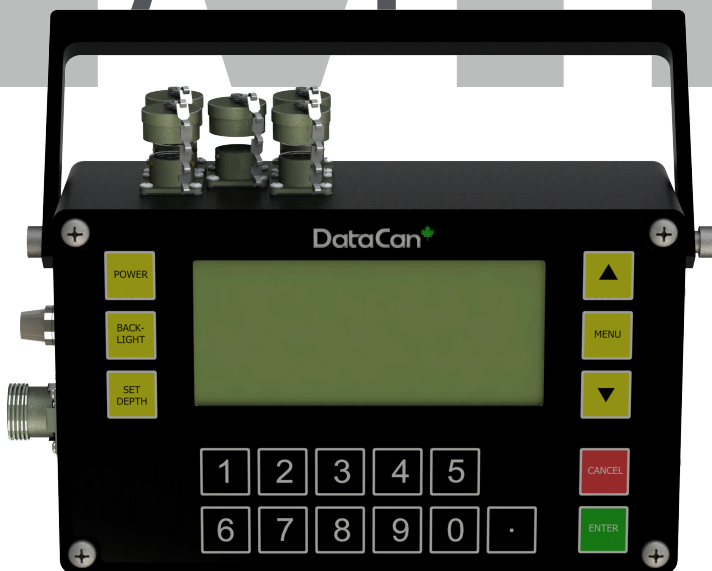
## Specifications

	Pressure	Temperature
Accuracy	0.03 % F.S.	0.5°C
Resolution	0.0003% F.S.	0.005°C
Drift	< 3 psi/year	< 0.1°C/year
Casing Collar Locator		
Detector Type	Electromagnetic	
Flowmeter		
Output	12 Pulses/Revolution	
Memory		
Capacity	2 Million Samples	
Communication Method	USB	



Canada

# PMR Memory Depth Recorder



## Application

The Portable Memory Recorder (PMR) provides depth correlation on slickline memory operations. Depth, tension, and two other configurable inputs are recorded and displayed. The data is later merged with Memory Production Logging, Memory Gauge, or Mini-Logging Tool data.

## Benefits

The Portable Memory Recorder (PMR) downloads recorded data for log merging with the push of a button, making it very easy to use. The memory can be read while on board or with any generally available card reader.

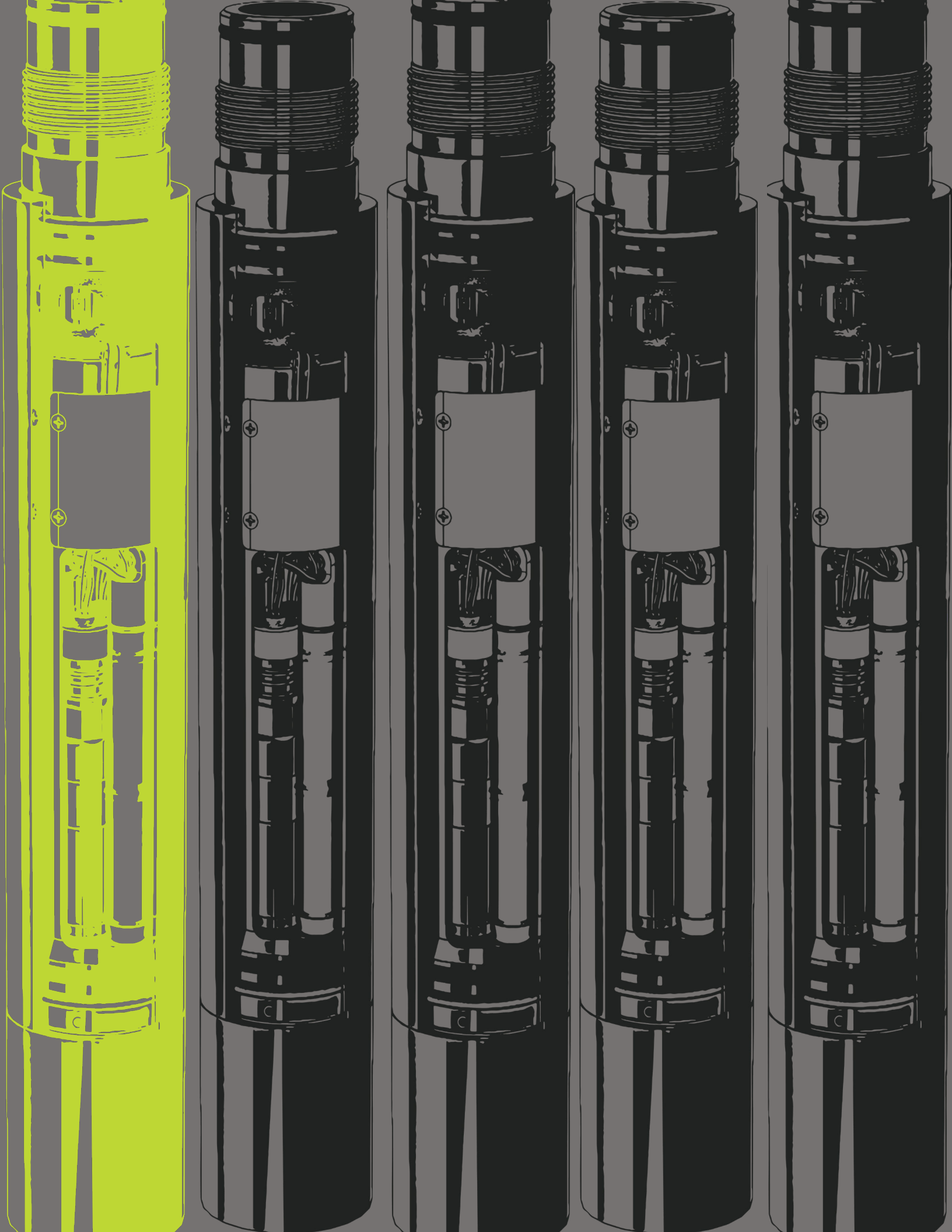
## Features

- Depth, Line Speed, Tension, and Two Other Analog Inputs
- User Selectable Tension Input - Single Ended, Differential, or I 2 C Digital Communications
- Up to 20 Samples/Second
- Four Programmable Depth Alarms
- Internal Rechargeable Battery or External Power Supply

## PMR

Description	Part No.
Portable Memory Recorder (PMR)_Standard	AE308UU0002
Depth Encoder Kit_Memory	AE603UU0009
Case_1520_Portable Memory Recorder	106487
Cable_Depth_30ft	PE171UU0071







### Benefits

The Coil Force Gauge is composed of ballistics quality shock proof parts that are rated for high temperature use and packaged in a shock mounted enclosure. It's a simple design that works. It is also programmed and downloaded using DataCan's easy-to-use Program and Download software.

### Features

- Measures Tension and Compression, Internal and External Pressure, and Temperature
- 10Hz Sampling Frequency
- 40 Million Sample Capacity
- 2.875" OD
- 1.03125" ID
- 80,000 lb Tensile Rating
- 4 x AA Replaceable Battery Packs
- Replaceable Smart Sensors
- Inconel 718

### Specifications

	Pressure	Temperature
Accuracy	± 0.03 % F.S.	0.25°C
Resolution	0.0003% F.S.	0.005°C
Drift	< 3 psi/year	< 0.1°C/year
Memory Capacity	40 Million Samples	
Communication Method	USB	
Force Range	80,000 lb Compression, 20,000 lb Tension	
Force Accuracy	1% F.S.	
Sample Rate	10 HZ	

COIL  
FORCE  
GAUGE

# Coil Force Gauge

## Application

The Coil Force Gauge is designed to capture and record the downhole forces applied to your coil tubing string and bottom-hole assembly. The Coil Force Gauge acts as a black box recording device to assist engineers in understanding what is happening downhole. The Coil Force Gauge measures up to 80,000 pounds of tension and 20,000 pounds of compression, 15,000 psi internal and external pressure, and 350°F. Additionally, the tool is robust enough to withstand multiple 50G acceleration events. The memory capacity allows for the tool to capture 8 days of data sampling 10 times per second.

There is no better way to know what actual forces are being transmitted downhole.

## Benefits

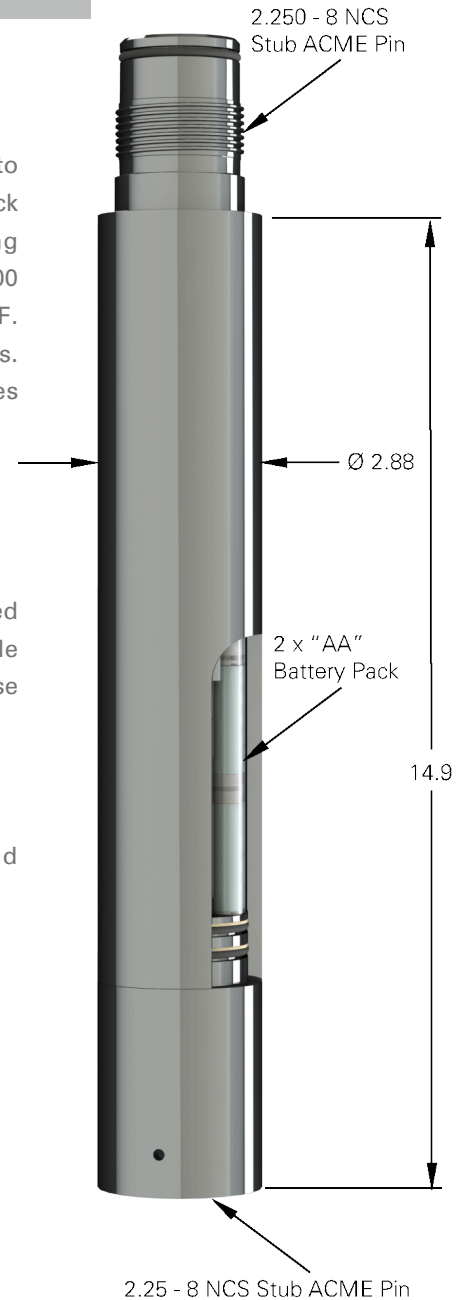
The Coil Force Gauge is composed of ballistics quality shock proof parts that are rated for high temperature use and packaged in a shock mounted enclosure. It's a simple design that works. It is also programmed and downloaded using DataCan's easy-to-use Program and Download Software.

## Features

- Measures Tension and Compression, Internal and External Pressure, and Temperature
- 10Hz Sampling Frequency
- 40 Million Sample Capacity
- 2.875" OD
- 1.03125" ID
- 80,000 lb Tensile Rating
- 4 x AA Replaceable Battery Packs
- Replaceable Smart Sensors
- Inconel 718

## McForcey - Inconel 718

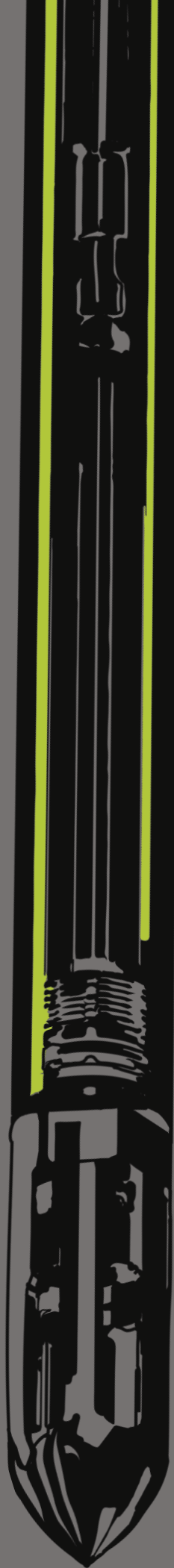
OD	Pressure	Part No.
2.876"	15,000 psi	108578



## Specifications

	Pressure	Temperature
Accuracy	0.03% F.S.	0.5°C
Resolution	0.0003% F.S.	0.005°C
Drift	< 3 psi/year	< 0.1°C/year
Memory Capacity	40 Million Samples	
Communication Method	USB	
Force Range	80,000 lb. Compression, 20,000 lb. Tension	
Force Accuracy	1% F.S.	
Sample Rate	10 Hz	





Temperature (C)

300

200

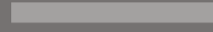
100

0

4

Internal temp

External temp



## Benefits

A geothermal tool has a large Dewar flask housing that insulates the internal, temperature sensitive components. As well as the insulating housing, the tool assembly has a large internal heat sink assembly.

The insulation, and the internal heat sink work together to prevent and absorb heat energy. This allows the internal electronics to stay below their critical operating temperatures.

## Features

- 8 hours @ 300°C (600°F)
- 4 hours @ 350°C (660°F)
- External Fast Response Temperature Probe
- Compatible with a number of different Flowmeters
- Silicon Pressure Sensor
- .01s Fast Sample Rate Option
- Inconel 718 - NACE MR0175

## Specifications

	Pressure	Temperature
Accuracy	± 0.03% F.S.	0.5°C
Resolution	0.0003% F.S.	0.005°C
Drift	< 3 psi/year	< 0.1°C/year

### Casing Collar Locator

Detector Type	Electromagnetic
---------------	-----------------

### Flowmeter

Min Rotation	30 rpm
Max Rotation	18,000 rpm
Resolution	0.125 rps

### Memory

Capacity	1.8 Million Samples
Communication Method	USB

8

12

Time (Hours)

# Geothermal P/T

## Application

The 1.75" Geothermal tool has an external fast response temperature sensor (ETS) and an internal pressure piezo sensor. Since the temperature sensitive downhole electronics are thermally insulated, this tool can be run in extreme temperatures; up to 300°C for 8 hours.

## Benefits

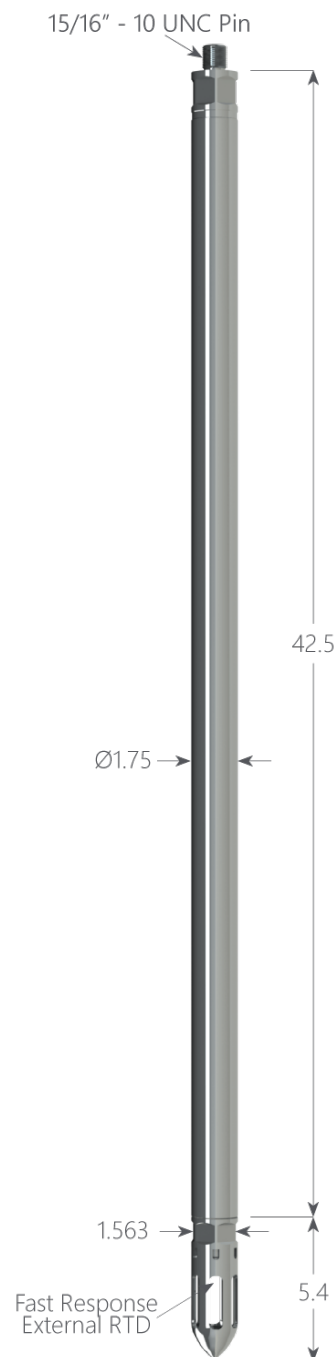
DataCan piezo gauges have excellent efficiency, meaning the battery life of the tool is just as good, if not better than competitors. DataCan piezo gauges have shock mounted electronics which means they have high reliability. DataCan program and download software is industry leading with the fastest graphing package available that is both customizable and easy to use.

## Features

- 8 hours @ 300°C (600°F)
- 4 hours @ 350°C (660°F)
- External Fast Response Temperature Probe
- Silicon Pressure Sensor
- 0.1s Fast Sample Rate
- Inconel 718 – NACE MR0175

## 1.75" Geothermal PT - Inconel 718

Pressure	Part No.
750 psi	100502
1,500 psi	100503
3,000 psi	100504
6,000 psi	100505
10,000 psi	100506
15,000 psi	100507
20,000 psi	100508



## Accessories

Accessory Type	Part No.
Bullnose SS316	100511
Crossover 15/16-10 UNC (5/8" Sucker Rod) SS316	100562
Pelican Case Assembly	100526
Redress Kit Viton 90	101672
Redress Kit Aflas 7182B	101673
Redress Kit Chemraz 510	101674
Battery Tester	100876

## Compatible Batteries

Size	Max Temp	Part No.
AA	150°C	100408
	165°C	100804
	180°C	100805
	200°C	100409
2 x AA	150°C	100411
	165°C	100806
	180°C	100807
	200°C	100412

## Specifications

	Pressure	Temperature
Accuracy	0.03 % F.S.	0.25°C
Resolution	0.0003% F.S.	0.005°C
Drift	< 3 psi/year	< 0.1°C/year
Capacity	750,000 Samples	
Communication Method	USB	

# 1.75" Geothermal P/T/F

## Application

The 1.75" Geothermal Pressure Temperature Flow Gauge has an external fast response temperature sensor that is exposed to the wellbore fluid and an internal pressure piezo sensor that senses wellbore pressure. It is compatible with the 5" or 7" Fullbore Spinner as well as the 1.688" and 2.125" Continuous Spinner.

The temperature sensitive downhole electronics are thermally insulated inside a vacuum flask with a heat sink to reduce the rate of temperature rise within the flask. This allows the 1.75" Geothermal PTS tool to operate in extreme temperature applications; up to 300°C for 8 hours.

## Features

- 8 hours @ 300°C (600°F)
- 4 hours @ 350°C (660°F)
- External Fast Response Temperature Probe
- Compatible with a Number of Different Flowmeters
- Silicon Pressure Sensor
- 0.1s Fast Sample Rate Option
- Inconel 718 – NACE MR0175

## 1.75" Geothermal PTS - Inconel 718

Pressure	Part No.
750 psi	102706
1,500 psi	102707
3,000 psi	102708
6,000 psi	102709
10,000 psi	102710
15,000 psi	102711
20,000 psi	102712





## Compatible Spinners

Spinner Type	Size	Version	Part No.
Fullbore Spinner	5"	Standard Service	AM005WA0002
		H2S Service	AM005WB0002
	7"	Standard Service	AM005WA0008
		H2S Service	AM005WB0008
Continuous Spinner	1.688"	Standard Service	AM005WA0004
		H2S Service	AM005WB0004
	2.125"	Standard Service	AM005WA0007
		H2S Service	AM005WB0007

## Accessories

Accessory Type	Part No.
Pelican Case Assembly	107775
Redress Kit Aflas 7182B	107777
Redress Kit Chemraz 510	107778
Battery Tester	100876

## Compatible Batteries

Size	Max Temp	Part No.
AA	150°C	100408
	165°C	100804
	180°C	100805
	200°C	100409

## Specifications

	Pressure	Temperature
Accuracy	0.03 % F.S.	0.25°C
Resolution	0.0003% F.S.	0.005°C
Drift	< 3 psi/year	< 0.1°C/year
Flowmeter		
Minimum Rotation	30 rpm	
Maximum Rotation	18,000 rpm	
Resolution	0.125 rps	
Memory		
Capacity	3.5 Million Samples	
Communication Method	USB	

# 1.75" Geothermal P/T/F/CCL

## Application

The 1.75" Geothermal Pressure Temperature Flow Gauge with CCL has an external fast response temperature sensor that is exposed to the wellbore fluid and an internal pressure sensor that senses wellbore pressure. The casing collar locator (CCL) uses high strength, long life magnets that provide accurate depth correlation when run downhole. It is compatible with the 5" or 7" Fullbore Spinner as well as the 1.688" and 2.125" Continuous Spinner.

The temperature sensitive downhole electronics are thermally insulated inside a vacuum flask with a heat sink to reduce the rate of temperature rise within the flask. This allows the 1.75" Geothermal PTS-CCL tool to operate in extreme temperature applications; up to 300°C for 8 hours.

## Features

- 8 hours @ 300°C (600°F)
- 4 hours @ 350°C (660°F)
- External Fast Response Temperature Probe
- Compatible with a Number of Different Flowmeters
- Silicon Pressure Sensor
- 0.1s Fast Sample Rate Option
- Inconel 718 – NACE MR0175

## 1.75" Geothermal PTS-CCL - Inconel 718

Pressure	Part No.
750 psi	107630
1,500 psi	107631
3,000 psi	107632
6,000 psi	107633
10,000 psi	107634
15,000 psi	107635
20,000 psi	107636



## Compatible Spinners

Spinner Type	Size	Version	Part No.
Fullbore Spinner	5"	Standard Service	AM005WA0002
		H2S Service	AM005WB0002
	7"	Standard Service	AM005WA0008
		H2S Service	AM005WB0008
Continuous Spinner	1.688"	Standard Service	AM005WA0004
		H2S Service	AM005WB0004
	2.125"	Standard Service	AM005WA0007
		H2S Service	AM005WB0007

## Accessories

Accessory Type	Part No.
Pelican Case Assembly	107775
Redress Kit Viton 90	107626
Redress Kit Aflas 7182B	107627
Redress Kit Chemraz 510	107628
Battery Tester	100876

## Compatible Batteries

Size	Max Temp	Part No.
AA	150°C	100408
	165°C	100804
	180°C	100805
	200°C	100409

## Specifications

	Pressure	Temperature
Accuracy	0.03 % F.S.	0.25°C
Resolution	0.0003% F.S.	0.005°C
Drift	< 3 psi/year	< 0.1°C/year
Casing Collar Locator		
Detector Type	Electromagnetic	
Flowmeter		
Minimum Rotation	30 rpm	
Maximum Rotation	18,000 rpm	
Resolution	0.125 rps	
Memory		
Capacity	1.8 Million Samples	
Communication Method	USB	

# 1.75" Geothermal P/T/F/CCL/GR

## Application

The 1.75" Geothermal Pressure Temperature Flow Gauge with CCL and Gamma Ray has an external fast response temperature sensor that is exposed to the wellbore fluid and an internal pressure piezo sensor that senses wellbore pressure through a capillary tube. The casing collar locator (CCL) uses high strength, long life magnets that provide accurate depth correlation when run downhole. The Gamma Ray section of the tool employs a sensitive sodium iodide scintillation crystal and photomultiplier tube to detect naturally occurring and artificially induced gamma ray radiation. This is used for correlation to the surrounding lithology of the well. The 1.75" Geothermal PTS-GR/CCL tool is compatible with the 5" or 7" Fullbore Spinner as well as the 1.375", 1.688" and 2.125" Continuous Spinner.

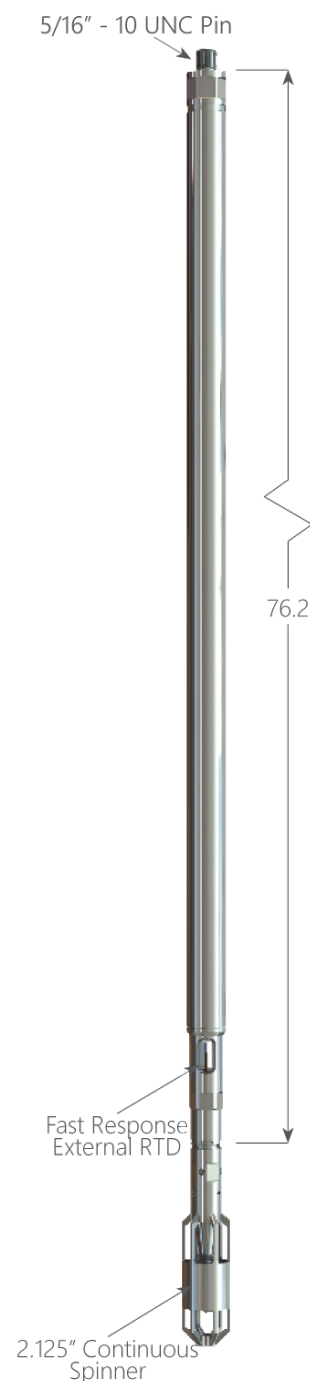
The temperature sensitive downhole electronics are thermally insulated inside a vacuum flask with a heat sink to reduce the rate of temperature rise within the flask. This allows the 1.75" Geothermal PTS-GR/CCL tool to operate in extreme temperature applications; up to 300°C for 8 hours.

## Features

- 8 hours @ 300°C (600°F)
- Pressure
- Temperature (External RTD)
- Flow
- Casing Collar Locator
- Gamma-Ray
- 0.1s Fast Sample Rate Option
- 1.6 Million Sample Capacity
- Inconel 718 – NACE MR0175

## 1.75" Geothermal PTS-GR,CCL - Inconel 718

Pressure	Part No.
3,000 psi	108301
6,000 psi	108302
10,000 psi	108303
15,000 psi	108304
20,000 psi	108305



## Compatible Spinners

Spinner Type	Size	Version	Part No.
Fullbore Spinner	5"	Standard Service	AM005WA0002
		H2S Service	AM005WB0002
	7"	Standard Service	AM005WA0008
		H2S Service	AM005WB0008
Continuous Spinner	1.375"	Standard Service	AM005WA0003
		H2S Service	AM005WB0003
	1.688"	Standard Service	AM005WA0004
		H2S Service	AM005WB0004
	2.125"	Standard Service	AM005WA0007
		H2S Service	AM005WB0007

## Accessories

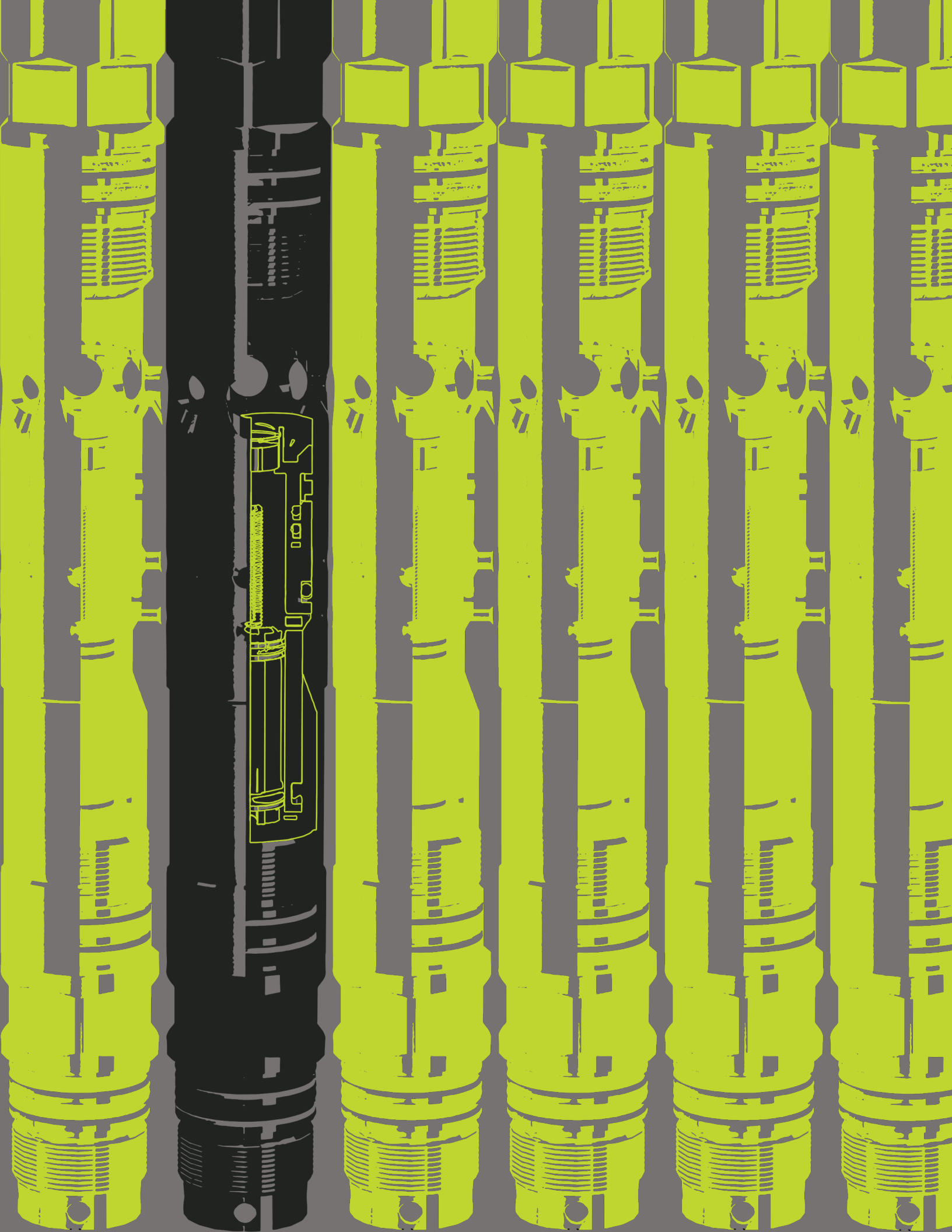
Accessory Type	Part No.
Pelican Case Assembly	108306
Redress Kit Aflas 7182B	107777
Redress Kit Chemraz 510	107778
Battery Tester	100876

## Compatible Batteries

Size	Max Temp	Part No.
2 x AA	150°C	100411
	165°C	100806
	180°C	100807
	200°C	100412

## Specifications

	Pressure	Temperature
Accuracy	0.03 % F.S.	0.25°C
Resolution	0.0003% F.S.	0.005°C
Drift	< 3 psi/year	< 0.1°C/year
Gamma Ray		
Detector Type	Scintillation	
Casing Collar Locator		
Detector Type	Electromagnetic	
Flowmeter		
Minimum Rotation	30 rpm	
Maximum Rotation	18,000 rpm	
Resolution	0.125 rps	
Memory		
Capacity	1.6 Million Samples	
Communication Method	USB	



## Benefits

A downhole shut-in tool's purpose is to enable the well bore to be shut in downhole rather than at the surface.

The process of shutting in a well downhole eliminates the "well bore storage effects." Well bore storage effects are the result of long lengths of production tubing that need to be pressurized before the buildup can be recorded.

The benefit of using a downhole shut in tool is to allow for a quicker well build-up and better pressure data quality. This saves operators money on down time and gives reservoir engineers better data for their calculations.

## Features

- Instant Close
- Multiple Cycles
- Patented Instant Close Valve (US#7823633)
- 10,000 psi differential pressure
- 150°C and 177°C Drive Option

## Specifications

Max External Pressure	16,000 psi (1,000 bar)
Max Drive Torque	200 oz-in (1,500mN - m)
Records	Time, Motor Current, Temperature
Capacity	1 Million Samples
Communication Method	USB

DOWNHOLE

# DHST

## 1.75" OD Valve

### Application

Instant close, multi-cycle. Downhole shut in tool.

The process of shutting in a well downhole eliminates the well bore storage effects. Your production tubing strings need to be pressurized before the buildup can be recorded and a significant energy loss occurs. You wait, you delay your production and reduce the precision of your data.

### Benefits

DataCan's downhole shut in tool allows for a quicker well build up and better pressure data quality. This saves operators money on down time, and gives reservoir engineers better data for their calculations.

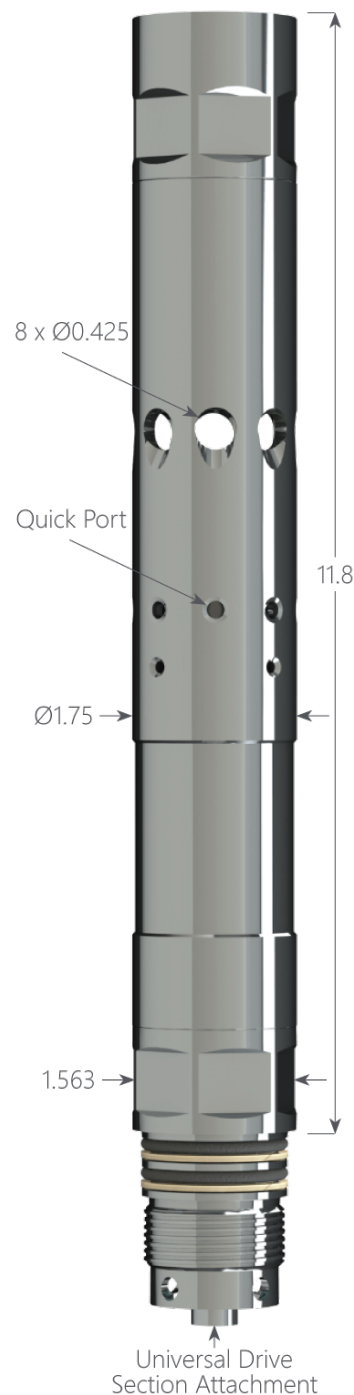
DataCan's 2.375" Valve is 1.75" in diameter with a 1.135 square inch flow area and can be used in either 2-3/8" and 2-7/8" tubing. DataCan's patented instant close valve design has multiple cycle capability and can operate at temperatures up to 150°C. The 2.375" Valve is very durable and can withstand the most physical of downhole conditions.

### Features

- Instant Close Time
- Multiple Cycle Capability
- Metal to Metal Seals
- Eliminates Wellbore Storage Effect
- Modular Design

### 1.75" Quick Shut In Tool Production Valve

Assembly Type	Material	Part No.
Sour Version	Inconel 718	100126





## Accessories

Accessory Type	Part No.
Pelican Case Assembly	100193
Redress Kit Viton 90	100190
Redress Kit Aflas 7182B	100191
Redress Kit Chemraz 510	100192
Battery Tester	100876

## Specifications

Closing Time	Instantaneous
Valve Flow Area	1.135 in <sup>2</sup> (7.3 cm <sup>2</sup> )
Lock Mandrel Flow Area	1.00 in <sup>2</sup> (6.5 cm <sup>2</sup> )
Max External Pressure	15,000 psi (1,000 bar)
Max Differential Pressure	10,000 psi (700 bar)
Max Temperature	350°C (177°C)
Power Source	3 "D" Cell Battery Pack (11.0 V, 10.0 Ahr)
Communication Method	USB



# DHST

## 2.50" OD Valve

### Application

Instant close, multi-cycle. Downhole shut-in tool.

The process of shutting in a well downhole eliminates wellbore storage effects. Your production tubing needs to be pressurized before the buildup can be recorded. Shut-in downhole, complete your test faster and record better data.

### Benefits

DataCan's downhole shut-in tool allows for a quicker well build-up and better pressure data quality. This saves operators money on downtime and gives reservoir engineers better data for their calculations.

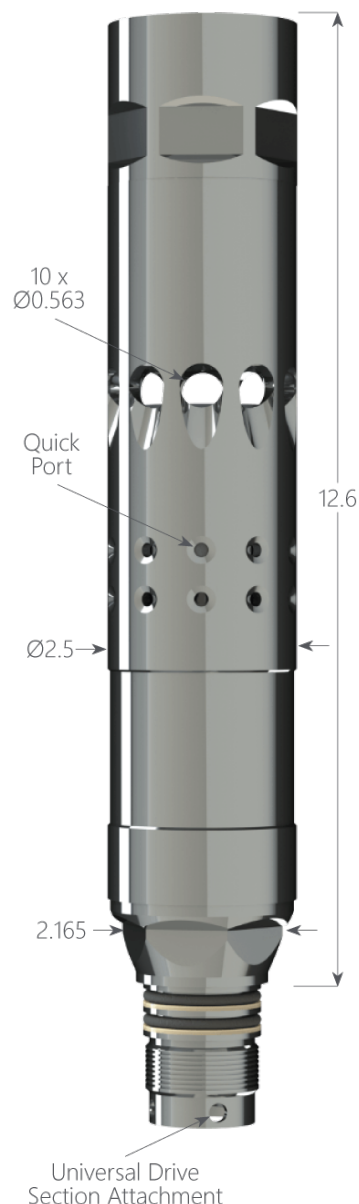
DataCan's 3.50" Valve is 2.50" in diameter with a 2.50 square inch flow area and can be used in 3-1/2" or larger tubing. DataCan's patented instant close valve design has multiple cycle capability and can operate at temperatures up to 150°C. The 3.50" Valve is very durable and can withstand the most physical of downhole conditions.

### Features

- Instant Close Time
- Multiple Cycle Capability
- Metal to Metal Seals
- Eliminates Wellbore Storage Effect
- Modular Design

### 2.5" Quick Shut In Tool Production Valve

Assembly Type	Material	Part No.
Sour Version	Inconel 718	104964



## Accessories

Accessory Type	Part No.
Pelican Case Assembly	100193
Redress Kit Viton 90	100223
Redress Kit Aflas 7182B	100224
Redress Kit Chemraz 510	100225
Battery Tester	100876
Wrench, Open Ended, Service, Thin, 1-9/16"	100880
Wrench, Open Ended, Service, Thin, 2-1/4"	102403

## Specifications

Closing Time	Instantaneous
Valve Flow Area	2.5 in <sup>2</sup> (16.1 cm <sup>2</sup> )
Lock Mandrel Flow Area	2.40 in <sup>2</sup> (15.5 cm <sup>2</sup> )
Max External Pressure	16,000 psi (1,100 bar)
Max Differential Pressure	10,000 psi (700 bar)
Max Temperature	350°F (177°C)
Power Source	3 "D" Cell Battery Pack (11.0 V, 10.0 Ahr)
Communication Method	USB



# DHST

## 3.50" OD Valve

### Application

DataCan's shut in tool allows the well-bore to be shut in downhole rather than at surface. The process of shutting in a well downhole eliminates the "well bore storage effects". Well bore storage effects are the result of long lengths of production tubing that need to be pressurized before the buildup can be recorded. DataCan's 4.50" Valve is 3.50" in diameter with a 4.90 square inch flow area and can be used in 4-1/2" or larger tubing. DataCan's patented instant close valve design has multiple cycle capability and can operate at temperatures up to 150°C. The 4.50" Valve is very durable and can withstand the most physical of downhole conditions.

### Benefits

DataCan's downhole shut in tool allows for a quicker well build up and better pressure data quality. This saves operators money on down time, and gives reservoir engineers better data for their calculations.

### Features

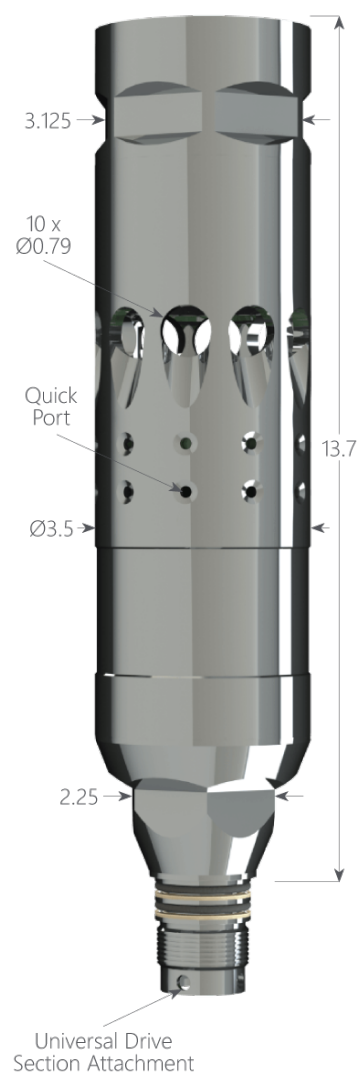
- Instant Close Time
- Multiple Cycle Capability
- Metal to Metal Seals
- Eliminates Wellbore Storage Effect
- Modular Design

### 3.5" Quick Shut In Tool Production Valve

Assembly Type	Material	Part No.
Sour Version	Inconel 718	102436

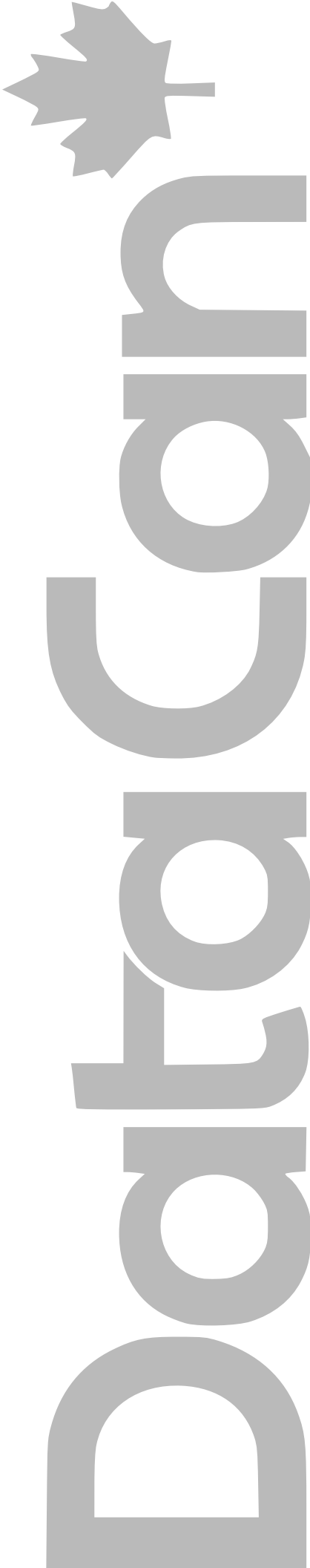
### Accessories

Accessory Type	Part No.
Pelican Case Assembly	102466
Redress Kit Viton 90	102444
Redress Kit Aflas 7182B	102445
Redress Kit Chemraz 510	102446
Battery Tester	100876



Specifications

Closing Time	Instantaneous
Valve Flow Area	4.9 in <sup>2</sup> (31.6 cm <sup>2</sup> )
Lock Mandrel Flow Area	4.9 in <sup>2</sup> (31.6 cm <sup>2</sup> )
Max External Pressure	10,000 psi (690 bar)
Max Differential Pressure	6,000 psi (410 bar)
Max Temperature	350°C (177°C)
Power Source	3 "D" Cell Battery Pack (11.0 V, 10.0 Ahr)
Communication Method	USB



# DHST Universal Drive

### Application

DataCan’s Universal Drive assembly is used to drive all sizes of DataCan shut in tools. A high temperature drive assembly is available that can operate at temperatures up to 177°C and a high torque universal drive assembly (780:1 gear box) is also now available and offered as our default drive assembly. The Universal Drive is programmed using DataCan download software and is multi cycle programmable for applications where the valve needs to open and close multiple times downhole. Locking 3 X “D” battery packs are used in the drive assembly, which is enough power for the shut in tool to open and close up to 8 times.

### Benefits

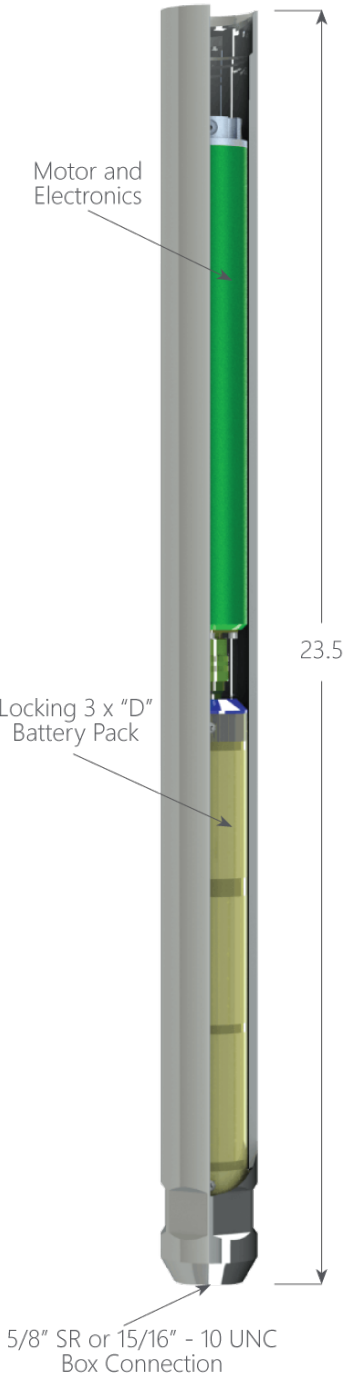
Since DataCan’s Universal Drive assembly is a universal connection for all DataCan shut in tools, customers do not need to buy multiple drives to run different sizes of valves.

### Features

- Drop Test Proven
- Connects to All DataCan Valves
- Multiple Cycle Capability
- USB Communication

### Quick Shut In Tool Universal Drive

Temperature Rating	Gear Ratio	Part No.
150°C	High Speed	100195
	High Torque	103463
177°C - New	High Speed	102856
	High Torque	103464

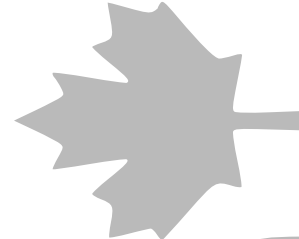


## Accessories

Accessory Type	Part No.
Battery Barrel 3 X "D" Inconel 718	103585
Battery Pack_2 x "C"_Amphenol Connector_165°C	100193
Battery Pack_2 x "C"_Amphenol Connector_180°C	101007
USB Communication Cable	101487
12V AC/DC Power Supply	101390
Tool Kit	104227

## Specifications

Max External Pressure	16,000 psi (1,000 bar)
Max Drive Torque	200 oz-in (1,500mN-m)
Records	Time, Motor Current, Temperature
Capacity	1 Million Samples
Communication Method	USB



data

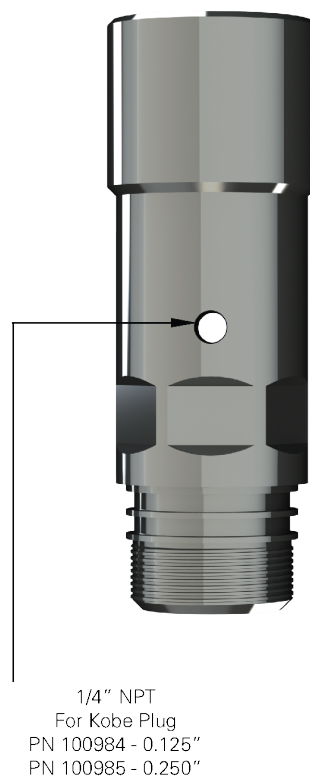
# Equalizing Crossover

## Features

- Kobe Knockout
- Mechanical equalization
- Crossover from lock mandrel to valve

## Mechanical Equalizing Crossover

Valve Size	Connection Type	Material	Part No.
1.75" OD	Baker F/QN 1.875	4140	105328
	Baker FW 2.56		102852
	Otis R/RN 2.313		104879
	Otis R/RN 2.56	Inconel 718	104880
			103591
	Otis X/XN 1.875	4140	100980
	Otis X/XN 2.313	Inconel 718	103590
			103684
2.5 OD"	Otis X/XN 2.750	4140	104881
	2.81 F/QN		100971
	3.688 F/QN		103738
	BKR Vam 2.697 NoGo	Inconel 718	106686
	Baker R/RN 2.750		102857
	Otis R/RN 2.56		100978
	Otis R 2.56	4140	104098
	Otis R/RN 2.750	Inconel 718	103687
	Otis R/RN 3.66	4140	103592
	Otis X/XN 2.750		100972
3.5" OD	R/RN 3.813		103803
	3.688 QX	4140	102043
	3.81 R/RN		102042









P: 14.5 psia

## Benefits

DataCan's surface logging suite is built around our surface pressure or temperature transmitter. The transmitters are fully welded designs that have been calibrated.

The transmitters (or smart sensors) can be packaged into a variety of different configurations to meet specific customer needs.

DataCan offers a Digital Chart Recorder, both wired and wireless pressure and temperature transmitters, as well as a number of single and multi-channel wellhead loggers.

## Features

- Piezo, Quartz, and External Temperature
- Single and Multi-channel Options
- Thermocouple and Custom Designs
- Data2Desk Systems

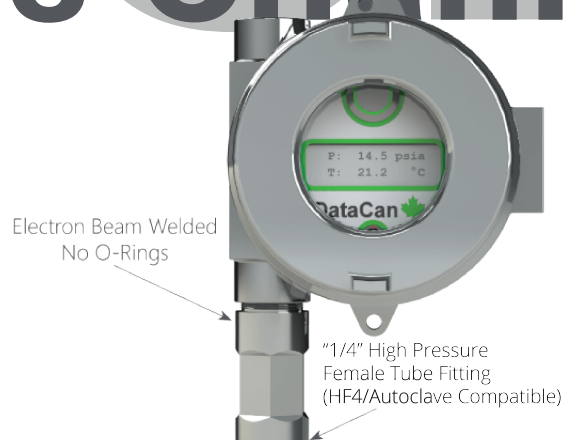
## Specifications

Piezo		
	Pressure	Temperature
Accuracy	$\pm 0.03$ % F.S.	0.25°C
Resolution	0.0003% F.S.	0.005°C

Quartz		
	Pressure	Temperature
Accuracy	$\pm 0.02\%$ F.S.	$\pm 0.2$ % F.S.
Resolution	0.00006% F.S.	0.005°C
Drift	$\leq 2$ psi/year	$< 0.1^\circ\text{C}$ / year
Communication Method	RS- 485 Modbus	

# Piezo

## Single Channel



### Application

The Single Channel Piezo Logger is used to measure either tubing or annulus pressure depending on where it has been installed on the wellhead. It can be used in a wide variety of applications, such as during injection monitoring or fracking.

The Single Channel Piezo Logger is a classic product that is easy to use. A single button is used to turn the device on and off. A lemo connection allows operators to program and download the logger using our standard DataCan gauge software. The Single Channel Piezo Logger can come with an antenna, which will send data to a laptop via radio frequency.

### Benefits

The Single Channel Piezo logger's explosion proof enclosure and simple design makes it both safe and very easy to use. The Single Channel Piezo logger also has an exceptionally long battery life and produces the same high quality data that our downhole gauges produce; data that is high accuracy and high resolution while being very reliable in its robust, all weather enclosure.

### Features

- Welded Sensor – No O-Rings
- Extreme Service Reliability
- 1 Million Sample Capacity
- Explosion Proof Enclosure Zone 0
- Powered by Large 2 x D Battery Pack

## Single Channel Piezo

Pressure	Temperature	Part No.	
		SS	Inconel
750 psi	Regular Version (-30°C to 80°C)	104380*	104386*
1,500 psi		104381*	104387*
3,000 psi		104382*	104388*
5,000 psi		104383*	104389*
10,000 psi		104384*	104390*
15,000 psi	Regular Version (0°C to 80°C)	104385*	104391*
20,000 psi		102745	102767
25,000 psi		102746	102768
30,000 psi		102727	102769
750 psi	Cold Version (-40°C to 50°C)	100825	100843
1,500 psi		100838	100844
3,000 psi		100839	100845
5,000 psi		100840	100846
10,000 psi		100841	100847
15,000 psi		100842	100848
20,000 psi		102724	102727
25,000 psi		102725	102728
30,000 psi		102726	102729

## Accessories

Accessory Type	Part No.
Pelican Case Assembly	100853
USB Communication Cable	100682
Radio 100m	102044
USB Radio Receiver	101790
Adapter 1/2" NPT	101438
Adapter 3/4" NPT	100849
Adapter Autoclave	100850

## Compatible Batteries

Size	Max Temp	Part No.
2 x D	85°C	101472

## Specifications

	Pressure	Temperature
Accuracy Up To	0.03% F.S.	0.25°C
Resolution	0.0003% F.S.	0.005°C
Drift	< 3 psi / year	< 0.1°C / year
Capacity	1 Million Samples	
Communication Method	USB	

# Piezo

## Multi-Channel



### Application

The Four-Channel Piezo is the second generation wellhead logger that gives users much more flexibility when designing a surface testing suite. The Multi-Channel Piezo has all of the features of the Single Channel Piezo, but you can now add multiple transmitters to one data logger. Up to 3 additional external devices can be connected to the device at a single time. The main unit and each external pressure transmitter can be screwed onto the wellhead to measure readings such as: tubing, casing and vent pressures. The logger contains an internal battery pack to power the unit. The user can also supply external power through the SCADA / Modbus connector.

### Features

- -30°C to 60°C Temperature Range
- 20 Million Sample Capacity
- High-Pressure Connections
- Battery Life Up to 12 Months
- RS-485 ModBus Connection

## Multi-Channel Piezo

Pressure	Temperature	Connection	Part No.
750 psi	Regular Version (-30°C to 60°C)	1/4" NPT	101744
1,500 psi			101745
3,000 psi			101746
5,000 psi			101747
10,000 psi			101748
15,000 psi		1/4" Autoclave	101749
20,000 psi			101750

## Accessories

Accessory Type	Part No.
Pelican Case Assembly	100766
USB Download Cable	104278
Adapter HF4 SS17-4	101636
Adapter 1/2 NPT SS17-4	101637
Adapter 3/4 NPT SS17-4	101638

## Compatible Batteries

Size	Max Temp	Part No.
2 x D	85°C	101472

## Specifications

	Pressure	Temperature
Accuracy Up To	0.03% F.S.	0.25°C
Resolution	0.0003% F.S.	0.005°C
Drift	< 3 psi / year	< 0.1°C / year
Capacity	20 Million Samples	
Communication Method	USB or ModBus	
Transducers	1 Internal & Up to 3 External	
Certifications & Ratings	Intrinsically Safe	
	CAN/CSA C22.2 No 60079-0	
	CAN/CSA C22.2 No 60079-11	
	CAN/CSA C22.2 No 142	
	ANSI/UL 60079-0	
Entity Parameters	ANSI/UL 60079-11	
	UL508	
	Class I, Zone 0, Aex ia IIB 4 Ga	
	Vi:	8 VDC
	Ii:	0.065 ADC
	Pi:	0.45 W
	Ci:	14 µF
	Li:	0 µH

# Piezo

## Dual-Channel With RTD



### Application

The Surface Logger Mark 2 is used to measure and record two input pressures and a process temperature by RTD probe. It's intended to work in a wide variety of outdoor environments, featuring weather-proof housing and connectors. The data can be exported to a microSD™ card through the Logger Data Transfer Module, then loaded onto a PC to be read by the DataCan Download Software.

### Features

- Welded Sensor (No O-Rings)
- Extreme Service Reliability
- 20 Million Sample Capacity
- Intrinsically Safe
- Powered by Field Replaceable 1 x 'D' Battery Pack

### Mark 2 Logger

Pressure	Temperature	Connection	Part No.
750 psi	-30°C to 80°C	1/2" NPT	109652
1,500 psi			109653
3,000 psi			109654
5,000 psi			109655
10,000 psi			109656



## Accessories

Accessory Type	Part No.
Pelican Case Assembly	109876
USB Download Cable	100682
4" RTD Probe- Swappable (0.5°C Accuracy)	109900
4" RTD Probe- Partnered (0.2°C Accuracy)	109681
6' RTD Cable	109695
Logger Data Transfer Module	109677
Hand Tool Kit	109753
Thread Saver - 1/2" NPTM x 1/2" NPTF	109689

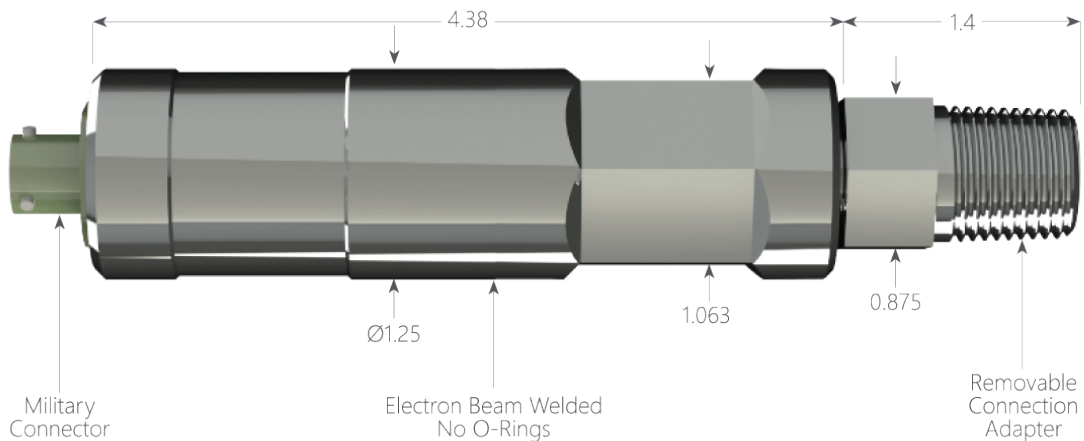
## Compatible Batteries

Size	Max Temp	Part No.
1 x D	85°C	109748

## Specifications

	Pressure	Temperature
Accuracy Up To	0.02% F.S.	0.2°C
Resolution	0.00022% F.S.	0.01°C
Drift	< 3 psi / year	< 0.25°C / year, Typical 0.01°C / year
Capacity	20 Million Samples	
Communication Method	USB	
Download To	External MicroSD Card	
Transducers	2 Internal & 1 External RTD	
Estimated Battery Life	1.2 Years @ 1 Second Sampling 6.7 Years @ 1 Minute Sampling	
Certifications & Ratings	Intrinsically Safe	
	Class 1, Zone 0, AEx ai IIC T3 Ga	
	Class 1, Div 1, Group: A B C D T3	
	Ta -40C to +80C	
	CSA 60079-0:2015, CSA 60079-11:2014 UL 60079-0:2013, UL 60079-11:2013	

# Piezo Pressure Transmitter



## Application

The Piezo Pressure Transmitter uses an electron beam welded piezo sensor to measure pressure of the wellbore at surface. The pressure transmitters have two connections. There is a 4-pin military connector for electrical connections at the top, and a pressure fitting to connect to the pressure port at the bottom. It is quick and easy to install in the wellhead, with a customizable pin or box connection to meet the user's needs.

## Benefits

The Piezo Pressure Transmitter has a compact design and low power consumption, making it cost effective for the customer. It also produces the same high quality data that our downhole gauges produce; data that is high accuracy and high resolution while being very reliable with an electron beam welded sensor.

## Features

- Easy to Use Software
- Multiple Sensor
- Custom Pin or Box Connections Upon Request
- Intrinsically Safe Option

## 1.25" Pressure Transmitter

Maximum Pressure	Temperature	Connection	Part No.
750 psi	85°C	1/4" NPT	108158
1,500 psi			108159
3,000 psi			108160
5,000 psi			108161
10,000 psi		1/4" Autoclave	108162
15,000 psi			108163
20,000 psi			108164
25,000 psi			108165
30,000 psi			108166

## 1.25" Pressure Transmitter - Intrinsically Safe

Maximum Pressure	Temperature	Connection	Part No.
750 psi	85°C	1/4" NPT	101631
1,500 psi			101630
3,000 psi			101629
5,000 psi			101628
10,000 psi		1/4" Autoclave	101627
15,000 psi			101626
20,000 psi			101625
25,000 psi			102369
30,000 psi			102370

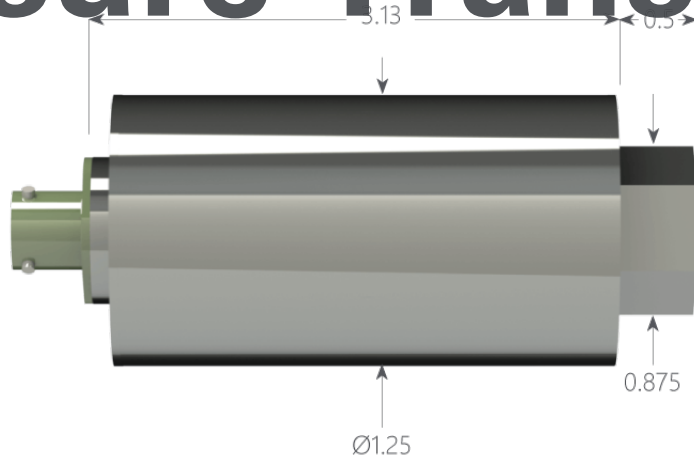
## Accessories

Accessory Type	Part No.
Data Cable 25ft	101796
Data Cable 50ft	101797
Data Cable 100ft	101798
Adapter 1/2 NPT Pin x HM4	101438

## Specifications

	Pressure	Temperature
Accuracy Up To	0.03% F.S.	0.5°C
Resolution	0.0003% F.S.	0.005°C
Drift	< 3 psi/year	< 0.1°C/year
Communication Method	USB	

# Quartz Pressure Transmitter



## Benefits

The Quartz Pressure Transmitter has a compact design and low power consumption, making it cost effective for the customer. It also produces the same high quality data that our downhole gauges produce; data that is high accuracy and high resolution while being very reliable with an electron beam welded sensor.

## Features

- Digital RS-485 ModBus
- Compatible with Digital Chart Recorder, Multi-Channel Logger & Permanent Surface Box
- High Resolution Measurements

## 1.25" Pressure Transmitter

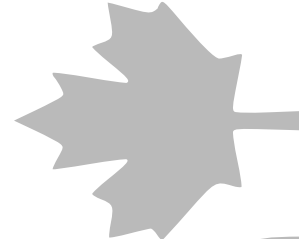
Maximum Pressure	Temperature	Connection	Part No.
5,000 psi	-40°C to 85°C	1/4" High Pressure	104349
10,000 psi			104350
20,000 psi			104351
30,000 psi			104352

## Accessories

Accessory Type	Part No.
Data Cable 25ft	101796
Data Cable 50ft	101797
Data Cable 100ft	101798
Adapter 1/2 NPT Pin x HM4	101438

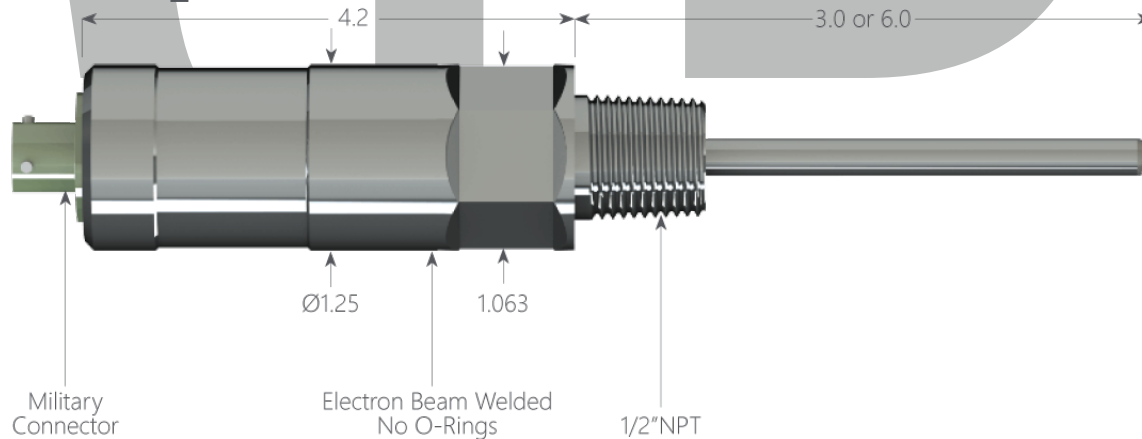
## Specifications

	Pressure	Temperature
Accuracy Up To	0.02% F.S.	0.25°C
Resolution	0.00006% F.S.	0.005°C
Drift	Negligible	Negligible
Communication Method	RS-485 Modbus	



data

# RTD Temperature Transmitter



## Application

The Temperature Transmitter is used to measure the temperature of the wellbore at surface and can reach temperatures up to 200°C.

## 1.25" Temperature Transmitter - SS17-4

Maximum Pressure	Temperature	Part No.
3" Probe	-40°C to 85°C	101499
6" Probe		101500

## Accessories

Accessory Type	Part No.
Data Cable 25ft	101796
Data Cable 50ft	101797
Data Cable 100ft	101798
Adapter 1/2 NPT Pin x HM4	101438

## Specifications

	Temperature
Accuracy Up To	0.2°C
Resolution	0.005°C
Communication Method	RS-485 Modbus

# D2D

## JobBox



### Application

Real-time permanent monitoring, diagnostic injection frac monitoring, and off-set well monitoring. It allows the user to view well bottom hole and surface data in real-time, from any location, using a secure web server.

### Benefits

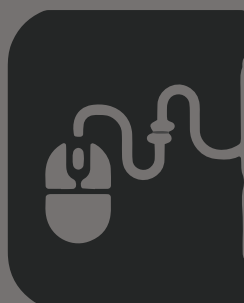
The Data2Desk system is cost-effective and convenient as it saves the cost of having personnel drive out to the site to check the well status. It also allows users to view current and historical data, observe data trends, set alarms, and change data sampling rates, all from a secure web server.

### Features

- 8 Surface Gauge (Quartz or Piezo)
- Set Alarms
- Change Sample Rate Remotely
- 20 Million sample capacity.
- [www.your\\_company\\_name.Data2Desk.com](http://www.your_company_name.Data2Desk.com)

### Data2Desk - JobBox

Description	Part Number
Surface Logger_Data2Desk_JoBox	101963
USB Download Cable	100682





ACCESSORIES

# DHP

# Gauge Carriers



## Application

Drill stem testing, gravel pack, coil tubing, perforating, fracturing, permanent monitoring, and well testing carriers are all engineered to your specifications. Please let us know your:

Max OD

Min ID

Burst & Collapse Rating

Connection Size and Type

Number and Type of Gauge & Ports

Concentricity & Surface Wear Considerations

Material and Environmental Preference

## Benefits

Using a Polaris carrier adapter, the gauges can be configured to measure tubing or annulus pressure.

## Features

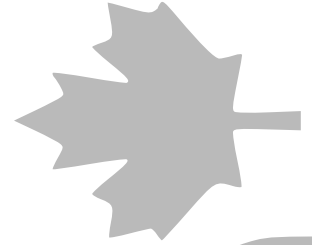
- Maximized ID/OD
- Metal to Metal Seals with Double O-Ring Backup
- 2-4 Gauge Carrying Capacity
- Capability to Measure Internal or External Pressures
- Custom Designs

## Gauge Carrier

OD/ID	Burst/Collapse	Tensile	Thread/Material Gauges		Part No.
15,000 psi	15k psi	198,000 lbs	2-7/8" EUE	2 x 0.75" Gauges	104228
			2-7/8" Premium	2 x 0.75" Gauges	104229
10,000 psi	10k psi	202,000 lbs	3-1/2" EUE	2 x 1.25" Gauges	104230
			3-1/2" Premium	2 x 1.25" Gauges	104231

## Accessories

Accessory Type	Part No.
0.75 Piezo_Polaris Carrier Adapter_Internal_SS	103138
0.75 Piezo_Polaris Carrier Adapter_External_SS	103139
0.75 Piezo_Polaris Carrier Adapter_Redress Kit Viton	105035
0.75 Piezo_Polaris Carrier Adapter_Redress Kit Aflas	107685
0.75 Quartz_Polaris Carrier Adapter_Internal_SS	103013
0.75 Quartz_Polaris Carrier Adapter_External_SS	103014
0.75 Quartz_Polaris Carrier Adapter_Redress Kit_Aflas	103017
1.25 Quartz_Polaris Carrier Adapter_Internal_Inconel 718	100940
1.25 Quartz_Polaris Carrier Adapter_External_Inconel 718	107105
1.25 Quartz_Polaris Carrier Adapter_Redress Kit_Viton	
1.25 Quartz_Polaris Carrier Adapter_Redress Kit_Aflas	101198



Canada

# DHP Bombwell Carrier

## Application

The downhole gauge bomb well carriers are used to house one or two DataCan memory gauges inside of a shock and dampened protective housing. DataCan's gauge bomb well carriers have shock absorbing springs and elastomer cushions and, for best results, can be filled with hydraulic fluid or inhibitor grease. This helps protect the gauges and extend the service life of the gauge downhole.

## Benefits

DataCan's gauge bomb well carrier provides protection to the memory gauges and is an inexpensive insurance solution against high shocks, vibration, and downhole pressure gauge wear.

## Features

- 1.25" OD, 1.6875" OD or 1.75" OD Available
- Sweet or Sour Options
- Corrosion Resistant NACE MR0175
- Custom Pin or Box Connections Upon Request

## 1.25" Bomb Well Carrier

Assembly Type	Holds	Thread Type	Length (L)	Max Length (*L)	Part No.
Sweet Version (4140, SS304)	(2x) 0.75" Piezo Gauges	Amerada	38"	25"	100465
	(2x) 0.75" Quartz Gauges	Amerada	55"	42"	104163
Sour Version (Inconel 718, Hastelloy C-276)	(2x) 0.75" Piezo Gauges	Amerada	38"	25"	100473
	(2x) 0.75" Quartz Gauges	Amerada	55"	42"	104165

See Table for  
Pin Thread Type

Fish Neck

For best  
results, fill  
chamber with  
hydraulic fluid  
or inhibitor  
grease

See Table for  
Box Thread Type

## 1.6875" Bomb Well Carrier

Assembly Type	Holds	Thread Type	Length (L)	Max Length (*L)	Part No.
Sweet Version (4140, SS304)	(2x) 1.25" Piezo Gauges	Amerada	3'	24"	101578
		5/8" SR	3'	24"	100469
	(2x) 1.25" Quartz Gauges	Amerada	5'	48"	104173
		5/8" SR	5'	48"	104174
	(2x) 1.25" Quartz DXB II Gauges	Amerada	6'	59"	104175
		5/8" SR	6'	59"	104176
Sour Version (Inconel 718, Hastelloy C-276)	(2x) 1.25" Piezo Gauges	Amerada	3'	24"	101583
		5/8" SR	3'	24"	100474
	(2x) 1.25" Quartz Gauges	Amerada	5'	48"	104177
		5/8" SR	5'	48"	104178
	(2x) 1.25" Quartz DXB II Gauges	Amerada	6'	59"	104179
		5/8" SR	6'	59"	104180

## 1.75" Bomb Well Carrier

Assembly Type	Holds	Thread Type	Length (L)	Max Length (*L)	Part No.
Sweet Version (4140, SS304)	(2x) 1.375" Piezo Gauges	5/8" SR	4'	37"	105647

# DHP Battery Packs

## Application

Battery packs provide power to downhole devices. An understanding of battery technology is critical to maintaining a high level of success. DataCan's high-temperature battery packs use Lithium Sulfuryl Chloride or Lithium Thionyl Chloride cells.

## Benefits

There are numerous battery sizes, temperature ratings, and rated capacities. In most cases, the customer tool type and maximum downhole temperature will dictate the battery pack required. Match your tool with its correct battery pack.

## Features

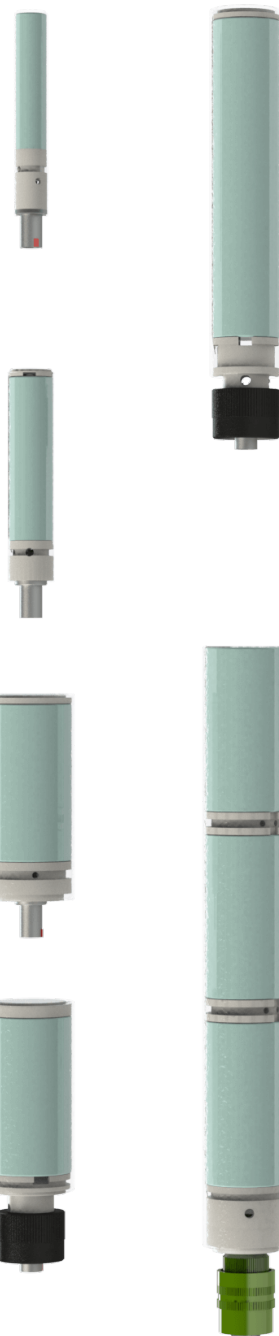
- Solid Caps
- Designed for Extreme Shock
- Tight Tolerances

## AAA - 4 Pin Lemo Connector

Size	Max Temp	Volts	Ahr	Part No.	Products
AAA	150°	3.6	0.7	104284	1/2" Piezo
	165°C		0.7	104287	

## AA - 4 Pin Lemo Connector

Size	Max Temp	Volts	Ahr	Part No.	Products
AA	150°	3.6	1.6	100408	3/4" Piezo
	165°C		1.6	100804	(Standard, Welded,
	180°C		1.4	100805	Accelerometer)
	200°C		1.2	100409	3/4" Quartz DXB
2 x AA	150°	3.6	3.2	100411	1" Quartz DXB
	165°C		3.2	100806	1" Side Pocket
	180°C		2.8	100807	Geothermal
	200°C		2.4	100412	3/4" Inclinometer 3/4" Vibration



## AA - Threaded Locking 4 Pin Lemo Connector

Size	Max Temp	Volts	Ahr	Part No.	Products
2 x AA	150°	3.6	3.2	105262	1-1/4" Burst
	165°C		3.2	105263	
	180°C		2.8	105264	

## C - 4 Pin Lemo Connector

Size	Max Temp	Volts	Ahr	Part No.	Products
C	150°	3.6	6.5	100671	1-1/4" Piezo (Standard, RTD, Welded III)
	165°C		5.5	100499	
	180°C		5.5	100500	
1 x CC	150°	3.6	15.0	101010	
	165°C		14.0	100989	
	180°C		10.5	100814	

## C - Threaded Locking 4 Pin Lemo Connector

Size	Max Temp	Volts	Ahr	Part No.	Products
C	150°	3.6	6.5	101268	1-3/8" Piezo (Welded) Production Logging Tools (Basic, Mini)
	165°C		5.5	101269	
	180°C		5.5	101270	
	200°C		5.0	101271	
1 x CC	150°	3.6	15.0	102362	
	165°C		14.0	102240	
	180°C		10.5	105234	
	200°C		9.0	105235	
2 x CC	150°	3.6	30.0	102780	1-1/4" Quartz DXB II
	165°C		28.0	102927	
	180°C		21.0	102928	
	200°C		18.0	102929	
3 x CC	150°	3.6	45.0	102381	
	165°C		42.0	102937	
	180°C		31.5	102938	
	200°C		27.0	102939	

## Sub CC - Threaded Locking 4 Pin Lemo Connector

Size	Max Temp	Volts	Ahr	Part No.	Products
Sub CC	150°	3.6	10.0	100808	1-1/4" Quartz DXB
	165°C		9.0	100226	
	180°C		7.0	100885	
	200°C		6.5	100227	
2 x Sub CC	150°	3.6	20.0	101660	
	165°C		18.0	101000	
	180°C		14.0	102023	
	200°C		13.0	101001	

### C/D - 4 Pin Lemo Connector

Size	Max Temp	Volts	Ahr	Part No.	Products
2 x C	150°	7.3	6.0	102376	Digital Clock
	165°		5.5	103543	
3 x C	150°	11.0	12.0	100639	1-3/8" Quick Shut In Tool
	165°		11.0	100203	3-1/2" Quick Shut In Tool
3 x D	150°		10.0	103586	4-1/2" Quick Shut In Tool
	165°		10.0	103587	
	180°		6.5	103588	

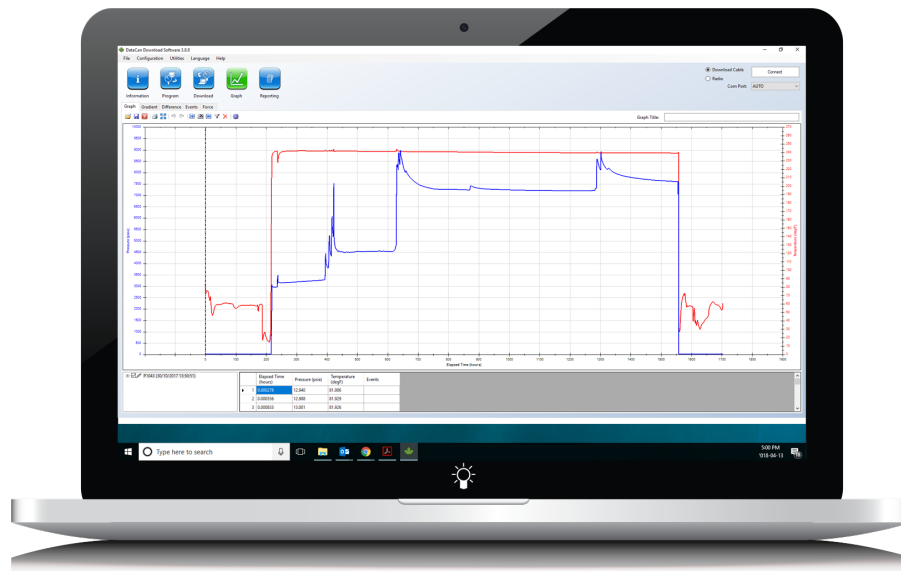
### D Logger Battery Pack

Size	Max Temp	Volts	Ahr	Part No.	Products
2 x D	85°	3.6	34.0	101472	Wellhead Logger Surface Logger



# DataCan

## Program and Download Software



### Application

Connects to every single DataCan Memory Gauge product.

### Benefits

Easy and intuitive software for your DataCan memory pressure gauge, surface gauge, shut-in tool, mini-logging tool, coil force gauge, and permanent monitoring surface box.

### Features

- Program & Download
- Graph & Report
- Configure & Diagnostics

### DataCan Software

Description	Part No.
Program, Download, Graph, Reporting, Manual	100872
Gauge Communication Cable_USB to 4 Pin Lemo	100682
Gauge Communication Cable_USB to 4 Pin Military	101007

### Specifications

Compatible with any Windows supported device

# DHP

## Redress Kits

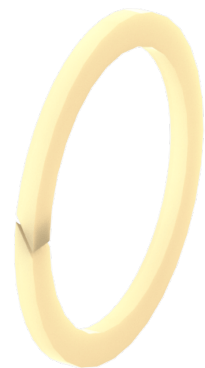
### Application

A variety of materials are available for use in O-Rings. The oil field industry has relied on 4 common materials. HNBR (Nitrile), Viton, Aflas, and FFKM (Chemraz, Kalraz, Perflas) are all common trade names for popular oil field elastomers.

Generally, as you move from HNBR to FFKM you gain chemical resistance and cost, but lose mechanical strength.

### Features

- Hydrogenated Nitrile (HNBR. HSN) = Nitrile is a low-temperature performer with limited chemical resistance. Superior mechanical characteristics, particularly high strength helps reduce extrusion and wear. Do not use with ketones, esthers, strong acids, or chlorinated hydrocarbons.
- Fluorocarbon (FKM) Viton = Has an excellent resistance to high temperatures, ozone, oxygen, mineral oil, synthetic hydraulic fluids, fuels, aromatics and many organic solvents and chemicals. Low-temperature resistance is generally not favorable. Do not use with glycol, organic acids, or steam.
- Tetrafluoroethylene-Propylene (TFE) Aflas = This elastomer has an excellent chemical resistance across a wide range of aggressive media. Do not use with aromatics, ketones, or chlorides.
- Perfluoroelastomer (FFKM) Chemraz = Perfluroelastomer (FFKM) currently offers the highest operating temperature range, the most comprehensive chemical compatibility, and the lowest off-gassing and extractable levels of any rubber material.



## Memory Tool - Redress Kit

Product	Material	Part No.
3/4" Quartz DXB, 1" Quartz 3/4" Piezo (Standard, Accelerometer)	Viton 90	100445
	Alfas 718 2B	100446
	Chemraz 510	100447
1-1/4" Quartz 1-1/4" Burst	Viton 90	100908
	Alfas 718 2B	100237
	Chemraz 510	100238
1-1/4" Piezo (Standard, Welded III, RTD)	Viton 90	100911
	Alfas 718 2B	101002
	Chemraz 510	101003
1-3/8" Welded Piezo	Viton 90	101372
	Alfas 718 2B	101373
	Chemraz 510	101374
Geothermal	Viton 90	101672
	Alfas 718 2B	101673
	Chemraz 510	101674
1-1/4" Quartz DXB II	Viton 90	101693
	Alfas 718 2B	101694
	Chemraz 510	101685

## Quick Shut In Tool - Redress Kit

Product	Material	Part No.
2-3/8" Quick Shut In Tool	Viton 90	100190
	Alfas 718 2B	100191
	Chemraz 510	100192
1-1/4" Quartz 1-1/4" Burst	Viton 90	100223
	Alfas 718 2B	100224
	Chemraz 510	100225
1-1/4" Piezo (Standard, Welded III, RTD)	Viton 90	102444
	Alfas 718 2B	102445
	Chemraz 510	102446

## Material Properties

Property	Viton	Aflas	Chemraz
Low Temp Duty	-10°C	30°C	0°C
High Temp Duty	200°C	220°C	230°C
Carbon Dioxide	Fair	Good	Good
H2S	Poor	Fair	Good
Tear/Abrasion Resistance	Good	Fair	Fair
Compression Set Resistance	Good	Fair	Poor

# 1.687" Roller Centralizer

## Application

The Roller Centralizer is a mechanical device that centralizes a tool string while it is run in or out of the wellbore. Hardened steel rollers on the contact points prevent wear on the arms as they expand and contract to fit the wellbore.

The Roller Centralizer is positioned anywhere within the tool string. Often, two Roller Centralizers are used in a string, one at the top and one near the bottom, to further increase the string stability.

## Benefits

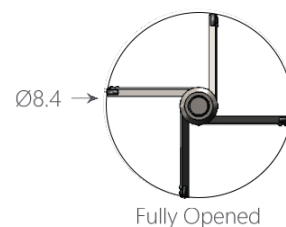
The Roller Centralizer has low friction, allowing it to move easily in and out of the wellbore. The wheels on the Roller Centralizer are easily replaceable and relatively inexpensive.

## Features

- Use to Centralize Memory Tools in Tubing or Casing
- 4 Arm Design Evenly Distributes Loading
- NACE Compliant Construction for Sour Service
- Available with Either Amerada or Sucker Rod Threads
- Bidirectional Breakaway

## 1.68" Roller Centralizer

Assembly Type	Thread Type	Part No.
Sweet Version (SS17-4)	Amerada 5/8" SR	104205 104078
Sour Version (Inconel 718)	Amerada 5/8" SR	103515 104206

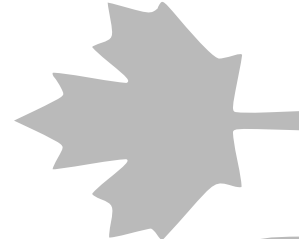


## Specifications

OD	1.687" Max
Overall Length	36"
Make Up Length	35"
Centralizing Range	1.7" to 8.4"
Break Direction	Up or Down
Centralizing Load Capacity	35 lbs
Tensile Breaking Strength	30,000 lbs Min
Working Load	10,000 lbs

## Replacement Parts

Part Type	Part No.
Centralizer Upper Arm - Stainless Steel	104460
Centralizer Upper Arm - CRA	103521
Centralizer Lower Arm - Stainless Steel	104461
Centralizer Lower Arm - CRA	103522
Arm Retention Screw - 1/4"-20 Button Head - Stainless	104090
Set Screw - #10-32 x 0.375" - Stainless	104143
Roller Screw - #10-32 x 0.44" Countersink	104088
1.0" Roller	104085
Roller Bushing - Brass	104089
Roller Bushing - Hardened	104215
Centralizer Spring - Standard	104081
Centralizer Spring - Reduced Rate	104638



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# Bowspring Centralizer

## Application

The Spring Centralizer is a mechanical device used to centralize the tool string while it is run in and out of a cased or tubed well. Keeping the tool string centralized helps to prevent it from getting stuck downhole. It can be positioned anywhere on the tool and often, two Spring Centralizers are used in a string, one at the top and one near the bottom, to further increase the strings stability.

## Benefits

The Spring Centralizer has a very simple design, making it a more cost effective solution than the Roller Centralizer.

## Features

- Economical
- 30 lb Load Strength
- NACE Compliant Construction for Sour Service

## 1.68" Spring Centralizer

Assembly Type	Thread Type	Part No.
Sweet Version (SS17-4)	Amerada	101210
Sour Version (Inconel 718)		106821

## Specifications

Centralizing Range	1.69" to 8.7"
Load Capacity	30 lbs
Tensile Breaking Strength	45,000 lbs
Working Load	30,000 lbs

Amerada Pin Thread Type

1.063

Ø1.25

Amerada Box Thread Type

# DHP Shock Absorber

## Application

DataCan's Shock Absorber helps minimize the impact of a tool moving downhole in a wellbore by dampening/absorbing the kinetic energy produced by the vibrations and shock loads of the tool. DataCan's Shock Absorber is often used in a tool string below DataCan's Quick Shut-In Tool, which has a number of moving parts, and above a DataCan memory gauge or gauge bomb well carrier.

## Features

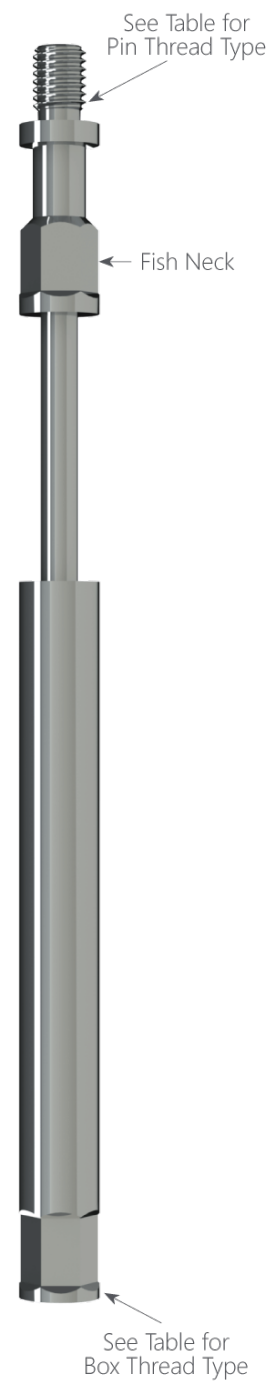
- Sweet or Sour Options
- Corrosion Resistant NACE MR0175
- Custom Pin or Box Connections Upon Request

## 0.75" Shock Absorber

Assembly Type	Material	Part No.
Sweet Version	4140 SS316 Springs	102038
Sour Version	Inconel 718 Hastelloy C-276 Springs	102054

## 1.25" Shock Absorber

Assembly Type	Material	Thread Type		Part No.
		Pin	Box	
Sweet Version	4140 SS316 Springs	5/8" SR	Amerada	100457
		Amerada		104371
		5/8" SR		104526
Sour Version	Inconel 718 Hastelloy C-276 Springs	5/8" SR	Amerada	100464
		Amerada		104372
		5/8" SR		104527







## **This all started with a ping-pong table...**

We were four friends with two things in common: a knack for engineering and no jobs. After the 2006 oil crash, we began using James' basement to meet and create downhole tools. Although the basement wasn't our ideal workspace, we made it work, including using an old ping-pong table as a surface to stage our shipments.

We wanted to make downhole pressure gauges that were easy to use and that worked all of the time. At the time, too many downhole electronic products had high failure rates. Thankfully, Katie found the calibration system too noisy. Along with the ping-pong table, we moved into a massive 1,500 square foot commercial space. It seemed like a huge risk.

Slowly but surely, we began to develop new designs and the foundation for a healthy small business. A daring few joined us and today our family has grown into a team of almost fifty people. We occupy two offices in two countries with about 20,000 square feet of space (slightly bigger than a basement). We opened a branch in Houston, TX and were awarded Red Deer Canada's '2019 Business of the Year' award.

Although we've changed a lot over the last fourteen years, one thing remains the same...that ping-pong table looks good in our offices.

James Wright



Mark Hartwell



Sheldon Nedeau



Brad Pound



# ABOUT