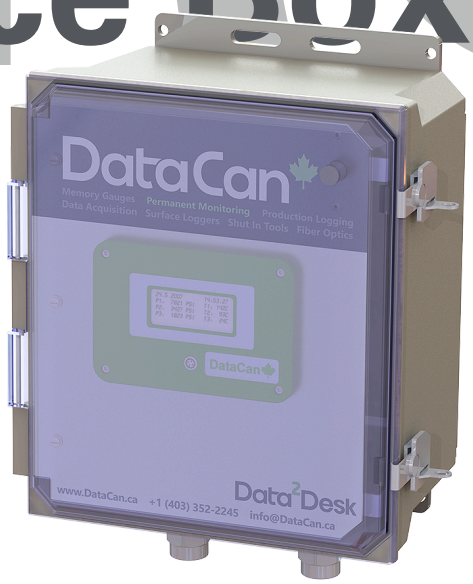
Surface Box



Application

DataCan's Surface Box collects, stores, displays, and transmits downhole and/or surface data. It has a NEMA 4X enclosure, digital display, 44 million sample capacity, and Modbus output. This box can connect up to 12 multi-gauge piezo or quartz gauges. You can also connect up to 9 additional telemetry cards to create a 10-well pad data logger, with an isolated loop for each well. To avoid crosstalk and improve reliability, we recommend using 1 telemetry per well. A fully capable system would be 12 tools per well and 10 wells.

Benefits

The Surface Box has low power requirements so it can be run on a small solar panel. With 44M sample capacity, data can be logged for years before reaching capacity. Alternatively, the system can be equipped with our Data2Desk system, enabling operation in an isolated or remote location. Set-up and data download is quick and easy via a USB connection.

Features

- Digital Display
- Over 44 Million Sample Capacity
- Set-Up & Download Via USB
- Modbus Output
- Add up to 3 or 9 Additional Telemetry Cards (Regular or Large Box)
- Optional Surface Transmitters Inputs
- Optional RTD Thermocouple Inputs
- Optional 4 to 20 mA Inputs or Outputs
- Optional Ethernet Output (TCP/IP)

Surface Box

Description	Version	Part No.
Permanent Surface Box	24V	103648
	30V	113935
Large Permanent Surface Box	24V	115131
	30V	115503

Accessories

Accessory Type	Part No.
USB-B Cable (6ft) [Included]	PE171UU0012
Gauge to Surface Box test cable [Included] (Cable head connector and Alligator clips)	109359
DataCan Download and Program Software (Download for free from website)	100872
36VDC to 12VDC Converter (wider input voltage range e.g. 24V solar system)	109112
90-264 VAC to 12 VDC converter (AC power in)	102189
Modbus RTU to TCP/IP Gateway (Ethernet Modbus)	105655

Specifications

Type	Description	
Display	OLED, 20 x 4	
Data Type Displayed	Pressure and Temperature	
Memory Capacity	More than 44 Million Sample Capacity	
Download Via	USB	
Output	RS-485 Modbus RTU (Optional Ethernet Modbus TCP/IP)	
Input Voltage	10 - 24 VDC (Optional 120-240 VAC)	
Power Consumption/Telemetry	1W typical, 3W max	
Sensor Inputs/Telemetry	Up to 12 Downhole Gauges	
Telemetry Cards/Enclosure	1 (Built in) + Up to 9 Additional Telemetry Cards	
Enclosure Dimensions	Regular Box: 13.5" L x 11.28" W x 7.19" D	
	Large Box: 17.5" L x 15.28" W x 9.19" D	
Enclosure Material	Molded Fiberglass Polyester	
Enclosure Rating	NEMA 4X	
Operating Temperature	-40°C to 60°C	
	24V Version	30V Version
Power Output	12/24 VDC	15/30 VDC
Maximum Output	70 mA/Card	90 mA/Card

Manuals

Multigauge Surface Box - User Manual
DataCan Download Software Manual