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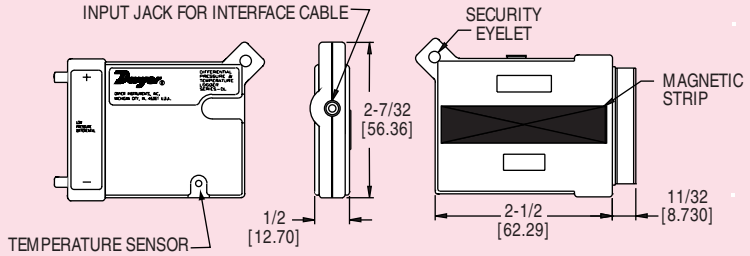
Series DL7

Differential Pressure Data Logger

Also Measures and Logs Temperature, Self-Powered, 2-Channel, Compact



Monitor and Record low differential pressures and temperature with the Model DL7 Differential Pressure Data Logger. Unit includes an on-board thermistor for ambient temperature measurement. Sampling rates are user selectable from 0.04 seconds to 8 hours with First-in first-out or Fill-then-stop sampling options. Loggers can store up to 21,500 readings and operate totally independently from any external power supply with built-in lithium battery. Use Model DL200 Windows™ software (sold separately) to quickly program the logger or upload data to a computer. The Series DL7 logger is ideal for monitoring air duct velocity, testing and balancing HVAC systems, or verifying room pressure.

STOCKED MODELS

Model Number	Pressure Range
DL70	±0.5″ w.c. (1.2 mbar)
DL71	±1″ w.c. (2.5 mbar)
DL72	±2.5″ w.c. (6.2 mbar)
DL75	±5″ w.c. (12.4 mbar)
DL710	±10″ w.c.(24.9 mbar)

PHYSICAL DATA

No. of Channels: Two; internal thermistor, and a differential pressure sensor.
Media: Dry air and noncorrosive gases.
Max. Pressure Rating: 5× rated pressure.
Accuracy: ±0.05″ w.c.
Resolution: ±0.01″ w.c.
Nonlinearity: ±0.05% FS (BFSL)
Hysteresis and Repeatabilty: ±0.05% FS.
Internal Thermistor Range: -40 to 158°F (-40 to 70°C).
Internal Thermistor Resolution: 0.7°F (0.4°C), R25 value equal to 10,000Ω [10kΩ @25°C (77°F)].
Compensated Temp Range: 32 to 158°F (0 to 70°C).
Thermal Accuracy: ±0.5% FS.
Memory Size: 21,500 readings.
Resolution: 12 bits (1 in 4096).
Stability: ±0.5% FS/yr.
Sampling Methods: Continuous (First-in, First-out: not available from 40 ms to 8 sec.), Stop when full (Fill-then-stop), or Delayed start.
Sampling Rates: Selectable from 0.04 seconds to 8 hours.
Power: Built-in 3.6V Lithium battery.
Power Consumption: 5-10 µA.
Clock Accuracy: ±2 sec/day plus one sampling interval.
Ambient Operating Temp: -40 to 158°F (-40 to 70°C), 0 to 95% RH, non-condensing.
Connection: Two 1/8″ I.D. permanent protective tubing.
Computer Requirements: IBM compatible 386 or above and Windows™ 3.1 or later with 2mB RAM and 2mB hard drive disk space, one serial port.
Housing: Noryl™
Weight: 4 oz (110 g).

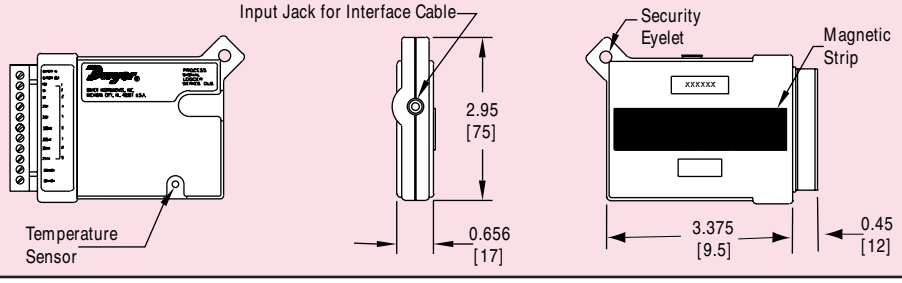
Accessories

No. DL200, Windows™ Software and Connecting Cable

Series DL8

Process Data Logger

8-Channels, Compact, Self-Powered, Stores up to 32,758 Readings



Eliminate traditional paper chart recorders with the Series DL8 Process Data Logger. This versatile, multi-channel data logger monitors and stores up to 32,768 process readings for later download to IBM compatible computer. Seven external input channels easily interface with common transducer and transmitter outputs. Internal thermistor measures ambient temperature conditions. Programming is simple and easy with the DL200 Windows™ software and connecting cable (sold separately). The Series DL8 Process Data logger is ideal for monitoring temperature, relative humidity, pressure, wind speed, current, voltage and power.

STOCKED MODELS

Model No.	Input Type
DL8	0 to 2.5 VDC, 0 to 5 VDC (2 ch.), 0 to 10 VDC, 0 to 200 mV DC, and 0 to 25 mA DC (2 ch).
DL81	All channels 0 to 25 mA.

PHYSICAL DATA

No. of Channels: Eight; One for internal thermistor and seven for external analog inputs.
Accuracy: ±1% of full scale.
Internal Thermistor Range: -40 to 158°F (-40 to 70°C).
Memory Size: 32,768 readings.
Sampling Methods: Continuous (First-in, First-out) or Stop when full (Fill-then-stop).
Sampling Rates: Selectable from 8 seconds to once every 5 days.
Resolution: 8 bits (1 in 256).
Power: Built-in 3.6V Lithium battery.
Power Consumption: 5-10 µA.
Clock Accuracy: ±8 seconds per day plus one sampling interval.
Ambient Operating Temp: -50 to 160°F (-45 to 70°C), 0 to 95% RH, non-condensing.
Connection: Removable screw terminal.
Computer Requirements: IBM compatible 386 or above and Windows™ 3.1 or later with 2 mB RAM and 2 mB hard drive disk space, one serial port.
Housing: Noryl™
Weight: 5 oz. (110 g).

Accessories

No. DL200, Windows™ Software and cable

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