Differential Pressure Data Logger

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 pressures to the SPDT switch.

The Series DX is a differential pressure switch that makes a contact output based on the differential between two pressure sources. Wetted materials of brass and fluoroelastomer are suitable for use with most gases and water based solutions. The switch can be used for low differential pressure indication with set point on a decrease of pressure as low as 1 psig (0.07 bar). Differential set point ranges are available from 2.5 to 75 psig (0.17 to 5.17 bar) on increasing differential pressures and 1.0 to 67 psig (0.07 to 4.62 bar) on decreasing differential pressures. Unit features a high static pressure rating of 200 psig (13.8 bar) for dust laden, outdoor, or wash-down installation environments. Series DX incorporates an externally adjustable set point, integral mounting flange and a removable electrical terminal block for quick and easy installation. The DX uses opposing diaphragms to sense the high and low pressure with a pivot mechanism that transfers the difference of the two pressures to the SPDT switch.

Series DX, Differential Pressure Switch ........................................ $65.00

### SPECIFICATIONS
- **Service:** Compatible gases and liquids.
- **Wetted Materials:** Connection: Brass; Diaphragm: Fluoroelastomer.
- **Temperature Limits:** 30 to 140°F (-1 to 60°C).
- **Pressure Limits:** 200 psig (13.8 bar). Continuous single side only pressure should not exceed 1.25 x full differential range.
- **Enclosure Rating:** Weatherproof UL type 4X (IP65).
- **Repeatability:** ±2% of full range.
- **Switch Type:** SPDT snap switch.
- **Electrical Rating:** 5A @ 125/250 VAC (50 Hz), 5A @ 120 VAC (60 Hz), 1 A @ 120V AC (50 Hz), 1 A @ 120 VAC (60 Hz).
- **Electrical Connection:** Removable terminal block.
- **Conduit Connection:** 0.871˝ diameter female (NPT) conduit.
- **Connection:** Weep hole 0.060” dia. female.
- **Process Connection:** 1/4” NPT female.
- **Mounting Orientation:** Painted Dye.
- **Process Connection: 1/2” NPT female.
- **Set Point Adjustment:** External screw.
- **Computer Requirements:** Body: Aluminum; Housing: Polycarbonate; Cover: 300 SS.
- **Vibration and Shock:** Set point repeats after 2.5 Gs, 5 to 500 Hz. Set point repeats after a 1G, 10 milliseconds duration.
- **Altitude Limit:** 6560 ft (2000 m).
- **Humidity Limit:** 80% (non-condensing).
- **Pollution Degree:** 2
- **Environment:** Intended for indoor and outdoor use.
- **Weight:** 1 lb 3 oz (0.54 kg).
- **Agency Approvals:** CE, CUL, UL.

### ACCESSORY
- DL200, Windows® Software and Connecting Cable ............................ $250.00

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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 s to 8 hrs 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.

### SPECIFICATIONS
- **No. of Channels:** Two, internal thermistor, and a differential pressure sensor.
- **Internal Thermistor Range:** 40 to 158°F (40 to 70°C).
- **Compensated Temp Range:** 32 to 200°F (0 to 90°C).
- **Memory Size:** 21,500 readings.
- **Accuracy:** ±0.05°C (up to 2˝ range).
- **Thermal Accuracy:** ±0.5% FS.
- **Clock Accuracy:** 12 day plus one sampling interval.
- **Resolution:** ±0.01 in w.c.
- **Internal Thermistor Resolution:** 0.7°F (0.4°C), R25 value equal to 10,000Ω @ 25°C (77°F).
- **Resolution:** 12 bits (1 in 4096).
- **Nonlinearity:** ±0.05% FS (BFSL).
- **Hysteresis and Repeatability:** ±0.05% FS.
- **Drift:** ±0.5% FS/yr.
- **Sampling Methods:** Continuous (first-in, first-out: not available from 40 ms to 8 s), stop when full (fill-then-stop), or delayed start.

### SALES AVAILABILITY
- **Sampling Rates:** Selectable from 0.04 s to 8 hrs.
- **Ambient Operating Temperature/RH:** -40 to 158°F (-40 to 70°C), 0 to 95% RH, non-condensing.
- **Connection:** Two 1/8˝ ID permanent protective tubing.
- **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.
- **Service:** Dry air and noncorrosive gases.
- **Max. Pressure Rating:** 4X rated pressure.
- **Power Requirements:** 3.6 V TSL134 lithium metal battery, internal, factory replaceable.
- **Power Consumption:** 5-10 µA.
- **Housing Material:** Polyphenylene ether and polystyrene PPE & PS.
- **Weight:** 4 oz (110 g).

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