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 readings for later download to an IBM compatible computer. Seven external input channels, 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 an 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 DL7 logger is ideal for monitoring air duct velocity, testing and balancing HVAC systems, or verifying room pressure.

**ACCESSORY**

DL200, Windows® Software and Connecting Cable

<table>
<thead>
<tr>
<th>Model</th>
<th>Pressure Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>DL70</td>
<td>±0.5 in w.c. (1.2 mbar)</td>
</tr>
<tr>
<td>DL71</td>
<td>±1 in w.c. (2.5 mbar)</td>
</tr>
<tr>
<td>DL72</td>
<td>±2 in w.c. (5.0 mbar)</td>
</tr>
<tr>
<td>DL75</td>
<td>±5 in w.c. (12.4 mbar)</td>
</tr>
<tr>
<td>DL710</td>
<td>±10 in w.c. (24.9 mbar)</td>
</tr>
</tbody>
</table>

**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 158°F (0 to 70°C).

**Memory Size:** 21,500 readings.

**Accuracy:** ±0.05 w.c. (up to 2” range) ±0.1 (5” and 10” range).

**Thermal Accuracy:** ±0.5% FS.

**Clock Accuracy:** ±2 s/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 [10kΩ @ 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.

**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.

**Service:** Dry air and noncorrosive gases.

**Max. Pressure Rating:** 4X rated pressure.

**Power Requirements:** 3.6 V TL5134 lithium metal battery, internal, factory replaceable.

**Power Consumption:** 5-10 µA.

**Housing Material:** Polyphenylene ether and polystyrene PPE & PS.

**Weight:** 4 oz (110 g).

**Agency Approvals:** CE.

**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 an 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.**

<table>
<thead>
<tr>
<th>Model</th>
<th>Input Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>DL8</td>
<td>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).</td>
</tr>
<tr>
<td>DL81</td>
<td>All channels 0 to 25 mA.</td>
</tr>
</tbody>
</table>

**ACCESSORY**

DL200, Windows® Software and cable

**SPECIFICATIONS**

**No. of Channels:** Eight; One for internal thermistor and seven for external analog inputs.

**Internal Thermistor Range:** -40 to 158°F (-40 to 70°C).

**Memory Size:** 32,768 readings.

**Accuracy:** ±1% of full-scale.

**Clock Accuracy:** ±5 s/day plus one sampling interval.

**Resolution:** 8 bits (1 in 256).

**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.

**Ambient Operating Temperature:** -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.

**Power Requirements:** 3.6 V TL5134 lithium metal battery, internal, factory replaceable.

**Power Consumption:** 5-10 µA.

**Housing Material:** Polyphenylene ether and polystyrene PPE & PS.

**Weight:** 5 oz (110 g).

**Agency Approvals:** CE.

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