



DPS-L

DIFFERENTIAL PRESSURE SENSOR

Ref: DPS-L-###-#

SN: P#####

Texsys sensors are designed for data recording. If the user wants to include this sensor in a close loop system or active control, he must assume all responsibility.

| Measurement | | |
|------------------------------------|-----------------|-----------|
| Range | -190 to +190 | mbar |
| Accuracy | Unidirectional | 2 |
| | Bidirectional | 1 |
| Offset | Unidirectional | 0.5 ± 0.1 |
| | Bidirectional | 2.5 ± 0.1 |
| Sensitivity | Unidirectional | 4 |
| | Bidirectional | 2 |
| Offset Drift (from 0 to 80°C) | 20 | mV |
| Sensitivity Drift (from 0 to 80°C) | 1 | % FS |
| Calibrator | Mensor CPC 4000 | |
| Electrical features | | |
| Supply Voltage | 5 to 16 | V |
| Supply Current | 2 | mA |
| Output Voltage | 0-5 | V |
| Output Impedance | 47 | Ω |
| Mechanical features | | |
| Dim | 57 x 12 x 14 | mm |
| Weight | 22 | g |
| Material | Aluminium | |
| Common | | |
| Protection | IP 64 | |
| Proof Pressure | 15x | FS |
| Vibration test | 20 Gpp 5' | |
| Shock | 500 | G |
| Operating Temp | 0 to +85 | °C |
| Storage Temp | -20 to +125 | °C |

Ordering ref:

DPS-L-Range-Mode

50: 50mbar
 70: 70mbar
 76: 76mbar
 100: 100mbar
 190: 190mbar

U: Unidirectional
 B: Bidirectional

Ex: DPS-L-76-B

| Sensor Readings | |
|-----------------------|-----------------------------|
| _____ V at _____ mbar | Sensitivity ____ mV/mbar |
| _____ V at _____ mbar | |
| _____ V at _____ mbar | |

Cable : 3x26AWG FEP Tinned copper braided cable 250V 200°C

Length : ____ mm Tubing: _____

Connector : _____

| Colour | Function | Pin |
|--------|-------------------|-----|
| Red | Supply | |
| White | Signal | |
| Black | 0V | |
| Braid | Connected to case | |

| Calibration table (example) | | | | |
|-----------------------------|---------|---------|---------|-------------|
| Range | At 0.5V | At 2.5V | At 4.5V | sensitivity |
| Mbar-Mode | mbar | mbar | mbar | mV/mbar |
| 50-U | 0 | 25 | 50 | 80.00 |
| 50-B | -50 | 0 | 50 | 40.00 |
| 70-U | 0 | 35 | 70 | 57.14 |
| 70-B | -70 | 0 | 70 | 28.57 |
| 76-U | 0 | 38 | 76 | 52.63 |
| 76-B | -76 | 0 | 76 | 26.32 |
| 100-U | 0 | 50 | 100 | 40.00 |
| 100-B | -100 | 0 | 100 | 20.00 |
| 190-U | 0 | 95 | 190 | 21.05 |
| 190-B | -190 | 0 | 190 | 10.53 |

Warning:

- Do not blow into the pressure ports, with the mouth or an air line
- The sensor withstands high humidity, but there is a risk of obstruction if water enters into the tubes
- Beware of condensation at low temperature

