

DPS4W

4 way differential low pressure sensor with optional 5th order linear phase filter

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|---------------------------------------|---|
| Range | ± 50 to ± 1000 mBars ± 0.7 to ± 15 Psi |
| Accuracy | ± 1 % FS |
| Sensitivity | See calibration table |
| Sensitive element | Piezo resistive cells |
| Offset unidirectional | 0.5 ± 0.1 V |
| Offset bidirectional | 2.5 ± 0.1 V |
| Offset drift (20 to 80°C) | 20 mV |
| Sensitivity drift (20 to 80°C) | 1 % |
| Cut off frequency no filter | 200 Hz |
| 5th order | 40Hz |

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|---------------------------------|----------|
| Supply voltage | 5 to 16V |
| Supply current no filter | 10 mA |
| 5th order | 15 mA |
| Output voltage | 0 – 5 V |
| Output Impedance | 47 Ω |

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|-----------------------------|---------------|
| Housing | Aluminium |
| Dimension no filter | 54x17.5x13 mm |
| 5th order | 54x17.5x17 mm |
| Weight | 20 g |

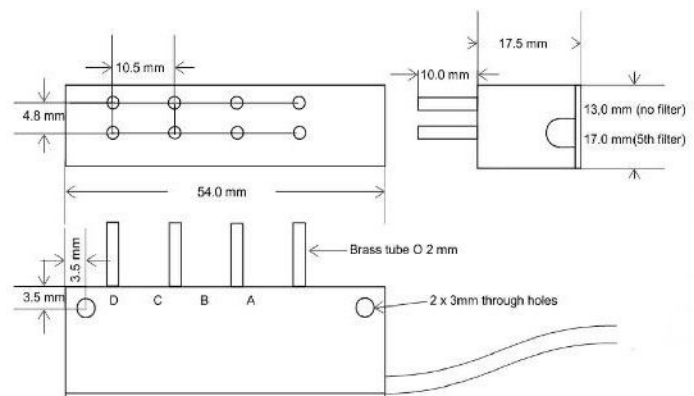
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|-----------------------|-----------|
| Vibration test | 20 Gpp 5' |
| Shock | 500 G |

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|-----------------------|----------------|
| Operating temp | 0 to +85 °C |
| Storage temp | -20 to +125 °C |

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|---------------|-------------------|
| Red | Supply |
| Black | 0 V |
| White | Signal Chan A |
| Green | Signal Chan B |
| Yellow | Signal Chan C |
| Blue | Signal Chan D |
| Braid | Connected to case |

1 m cable of 6X26AWG FEP
tinned copper braided cable 250V 200°C

| Calibration table (examples) | | | | |
|------------------------------|-----------------------------|----------------------------|----------------------------|--------------------------------|
| Unidirectional | 0V5 @ | 2V5 @ | 4V5 @ | sensitivity |
| 50 mB 0.7 Psi | 0 | 25mm H ₂ O | 50mm H ₂ O | 8 mV/ mmH ₂ O |
| 70 mB 1.01 Psi | 0 | 350mm H ₂ O | 700mm H ₂ O | 5.7 mV / mmH ₂ O |
| 200 mB 3 Psi | 0 | 1000mm H ₂ O | 2000mm H ₂ O | 2 mV / mmH ₂ O |
| Bidirectional | 0V5 @ | 2V5 @ | 4V5 @ | sensitivity |
| 50 mB 0.7 Psi | -50mm H ₂ O | 0 | +50mm H ₂ O | 4 mV/ mmH ₂ O |
| 70 mB 1.01 Psi | -700mm H ₂ O | 0 | +700mm H ₂ O | 2.85 mV/ mmH ₂ O |
| 200 mB 3 Psi | -2000mm H ₂ O | 0 | +2000m H ₂ O | 1 mV / mmH ₂ O |



Ordering info: DPS4W - FIL - 200 - 2.5

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|--|-------|--------|
| FIL : 5 th order Linear Phase | Range | Offset |
| - no filter | mB | Volts |