

ED2-SM SERIES TECHNICAL INFORMATION

Electrical:

Voltage 12 V DC to 48 V DC

Current: Operating 30 mA

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Environmental:

Operating temperature -25 °C to +70 °C

Water and dust resistant

Triple shock mounting bracket included

Physical: 120 x 80 x 55 mm, polycarbonate enclosure

Technology: Micro Controller

Pressure Transducer:

Standard pressure port connection: G 1/4 , male thread standard

Pressure transducer adapter G1/4 to 1/4"-18 NPT male included in kit

Optional pressure port : M 12x 1,5

Accuracy: +/- 0.3% of full scale

Repeatability: +/- 0.05% of full scale

Hysteresis: +/- 0.1% of full scale

Stability: +/- 0.2% full scale/yr

Temperature Information:

Compensation: 32° F to 175° F

Drift: +/- 0.03% /50 ° F

Medium: -22° F to 212° F

Ambient: 14° F to 175° F

Storage: -40° F to 212° F

Materials of Construction: Casing: Stainless steel 1.4305 (AISI 303)

Weight: 95 grams

Shock Sensitivity: <+/- 0.05% full scale @ 100g for 20 ms

Vibration Sensitivity: <+/- 0.05% full scale @ 35g & 5-2000Hz

Response Time: < 0.1 ms, 10-90% FS

Frequency Limit: 150 Hz

Proof Pressure: 2, 5 x ranges

Burst Pressure: 2, 5 x ranges

Output: 3 wires 0 - 2,5 V DC

Protection: Environmental: IP67

Fault:

Reverse polarity
Over voltage
Short circuit

Standard outside thread G 1/4 male, sealed at back DIN3852/E with pressure tip orifice

Interference Stability	Test Standard	Effects
Electrostatic discharge (ESD)	EN 61000-4-2 15 kV air discharge, 6kV contact discharge	No effect
High- frequency electromagnetic radiation (HF)	EN 61000-4-6 200mV, 80....1000Mz	No effect
Conducted HF interferences	EN 61000-4-6 30V. 0,15...80 MHz	No effect
Fast transients (burst)	EN 61000-4-4 4kV	No effect
Surge	EN-6100-4-5 Line-Line, Line-Case 500V, 12Ohm, 9µF	No failure
Magnetic fields	EN 6100-4-8 30A/m, 50 Hz	No effect
Insulation voltage	500 V DC (optional 1000 V DC)	No effect
Interference emit	Test standard	Effects
Conducted interference Radiation from housing	EN 55022 0,15... 30Mhz30... 1000Mhz, 10 meters	No emission

System Check Weighing Accuracy: +/- 0.5% to 1% of vehicle lifting capacity

Indicator Dial Ranges (kg or lb): Up to 50000