

Level

Volume

Flow

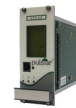
Pump Control

Differential

Ultra 5

Technical Specification:

PHYSICAL (MOUNTING OPTION SPECIFIC):



| Mounting option: | Wall Mount | Fascia Mount | Rack Mount | Panel Mount |
|--|---|---|----------------------------------|------------------------|
| Sensor body dimensions: | 235 x 184 x 120mm (9.25 x 7.24 x 4.72in) | 200 x 112 x 108mm (7.87 x 4.4 x 4.25in) | 10HP x 160Dmm x 3U (128.5Hmm) | 72W x 144H x 176Dmm |
| Sensor body weight: | Nominal 1kg (2.2lbs) | Nominal 1.3kg (2.86lbs) | Nom. 0.8kg (1.7lbs) | Nom. 1.4kg (3lbs) |
| Enclosure material/description: | Polycarbonate, flame resistant to UL91 | Stainless steel back, Polycarbonate UL94-V0 front and bezel | Aluminium frame | ABS |
| Cable entry detail: | 10 cable entry knock outs 5x M20, 1 x M16 underside 4 x 18mm dia (PG11) at rear | N/A | N/A | N/A |
| Enclosure protection: | IP65 | IP64 | None | IP65 optional |

PHYSICAL (ALL MOUNTING OPTIONS):

| | |
|-------------------------------------|----------------------|
| Transducer cable extensions: | 2-core screened |
| Maximum separation: | Up to 1000m (3280ft) |

ENVIRONMENTAL:

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|---|---------------------------------|
| Max. and min. temperature (electronics): | -20°C to +50°C (-4°F to +120°F) |
|---|---------------------------------|

APPROVALS:

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|---------------------------------------|---|
| CE approval: | Listed in the Certificate of Conformity within the manual |
| Flammable atmosphere approval: | Safe area: compatible with approved dB transducers |

PERFORMANCE:

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|-------------------------------|--|
| Accuracy/Repeability: | 0.25% of the measured range or 6mm (whichever is greater) |
| Resolution: | 0.1% of the measured range or 2mm (whichever is greater) |
| Min. & max. range: | 0 - 40m (131ft). Dependent on sensor used. Ability to measure 50m (164ft) with dB50 when modified. |
| Rate response: | Fully adjustable |
| Echo processing: | DATEM (Digital Adaptive Tracking of Echo Movement) |

OUTPUTS:

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|---|---|
| Analogue output: | Isolated (floating) output (to 150V) of 4-20mA or 0-20mA into 500Ω (user programmable and adjustable) 0.1% resolution |
| Digital output: | Full Duplex RS232 |
| Volt free contacts, number & rating: | 5 form "C" (SPDT) rated at 5A at 240Vac |
| Display: | 6 digits plus 12 character text, plus bargraph with direction indicators, remote communicator identifier and program/run/test mode indicators |

INPUTS:

| | |
|-----------------------------------|---|
| Analogue input (optional): | Isolated (floating) input (to 150V) 4-20mA or 0-20mA source, open circuit voltage 33V, 22V at 4mA, 14V at 20mA (user programmable and adjustable) 0.1% resolution |
|-----------------------------------|---|

PROGRAMMING:

| | |
|--|--|
| On-board programming | By integral keypad |
| PC programming: | Via RS232 |
| Programming security: | Via passcode (user selectable and adjustable) |
| Programmed data integrity: | Via non-volatile RAM, plus backup |
| Rack & Panel remote programming | Via optional infra-red communicator (requires 2 x AA alkaline batteries) |

SUPPLY:

| | |
|----------------------|--|
| Power supply: | 115Vac +5% / -10% 50/60Hz, 230Vac +5% / -10% 50/60Hz, 18-36Vdc, 10W maximum power (typically 6W) |
| Fuses: | 100mA at 170-240Vac, 200mA at 85-120Vac |

Pulsar Process Measurement Ltd. operates a policy of constant development and improvement and reserves the right to amend technical details as necessary.

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