

QUANTUM 3

Technical Specifications:

Quantum 3 can be programmed to provide an alarm based on the time remaining before the station or well spills over. Vital for utilities who face the risk of prosecution if a station pollutes the local environment. Quantum 3 adds the ability to interface with up to four Flow Pulse non-invasive flow monitors, so all flow-rate based alarms and control is based on measured rather than calculated flow.



PHYSICAL: MOUNTING OPTION SPECIFIC

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| Mounting Option: | Fascia Mount: |
| Controller Body Dimensions: | 200 mm x 112 mm (7.87 in x 4.41 in) front, 165 mm x 105 mm (6.49 in x 4.13 in) cut-out |
| Weight: | Nominal 1.3 kg (2.9 lb) |
| Enclosure Material/Description: | Stainless steel and polycarbonate, flame resistant to UL94 V0 |
| Transducer Cable Extensions: | Twin Screened |
| Maximum Separation: | 1,000 m (3,280 ft) |

ENVIRONMENTAL

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| IP Rating: | IP64 |
| Max. & Min. Temperature (Electronics): | -20 °C to +55 °C (-4 °F to +131 °F) |
| Flammable Atmosphere Approval: | Safe area: compatible with approved dB transducers allowing installation to zone 0 |
| CE Approval: | EMC approval to BS EN 50081-1 : 1992 for emissions and BS EN 50082-2:1995 for immunity and to BS EN61010-1:1993 for low voltage directive. |
| Power Supply: | 115 V AC +5-10% 50/60 Hz, 220 V AC +5-10%, 18-36 V DC |

PERFORMANCE

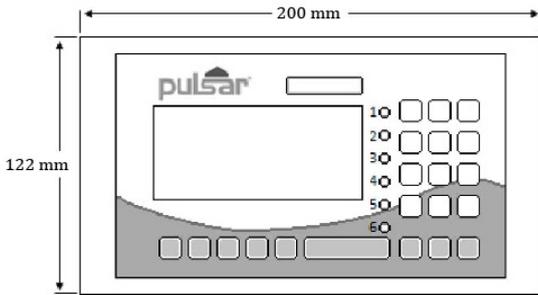
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| Accuracy: | +0.25% of the measured range or 6mm whichever is greater |
| Resolution: | dB MACH3 0.25 mm (0.01 in), dB3 0.5 mm (0.02 in), dB6 and dB10 1 mm (0.04 in), dB15 1.5 mm (0.06 in), dB25 2.5 mm (0.1 in), dB40 5 mm (0.20 in) |
| Range: | Depending upon transducer, from 125 mm to 40 m (0.41 ft to 130 ft) |
| Echo Processing: | Patented DATEM (Digital Adaptive Tracking of Echo Movement) |
| Digital Communications: | RS485 Modbus or Profibus DP V0 or V1 |

INPUTS/OUTPUTS:

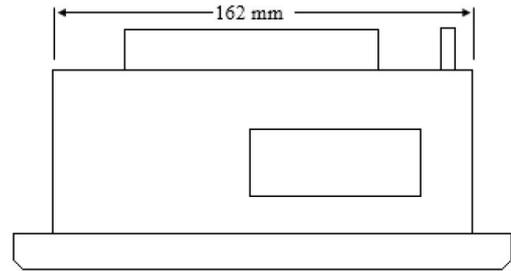
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| Volt-free Contacts: | 10 in total. Relays 1-5 form C (SPDT) 5A, 220 V AC. Relays 6-10 form C (SPDT) 3A, 220 V AC |
| Digital Inputs: | 7 NO or NC with 24 V DC internal supply, available max. 20mA |
| Analog Output (Adjustable): | 2 off Isolated output of 4-20mA or 0-20mA into 500 Ω (user programmable and adjustable) 0.1% resolution |
| Serial Output: | RS232 via RJ11 port |
| Display: | 6 digits plus 12 character text, plus bargraph with direction indicators, remote communicator indicators, and program/run/test mode indicators |

PROGRAMMING

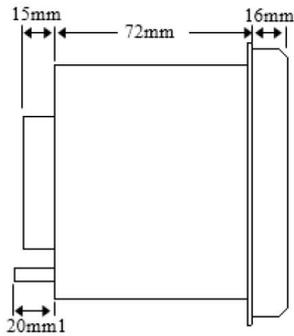
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|-----------------------------------|---|
| On-board Programming: | Standard with integral keypad |
| PC Programming: | Via RS232 (RJ11 port) |
| Programming Security: | Via passcode (user selectable and adjustable) |
| Programmed Data Integrity: | Via non-volatile RAM, plus backup |



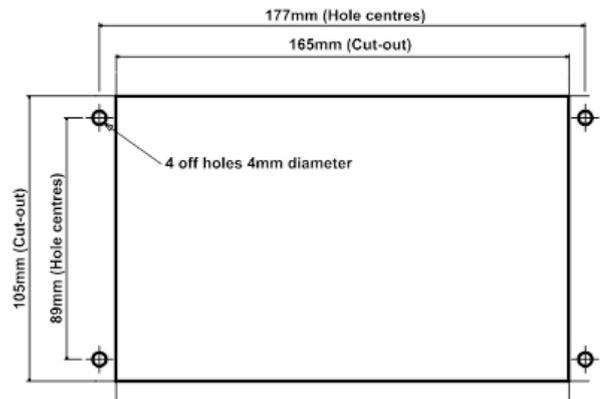
Quantum 3 Front Drawing



Quantum 3 Top Drawing



Quantum 3 Side Drawing



Cut-Out Dimensions



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