DORGEAN
Beijing Dorgean Electronic Technology Co.,Ltd

**Instrument Expert
Original factory
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pulsar
M E A S U R E M E N T

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

Mounting Option:	Fascia Mount:
Controller Body Dimensions:	200 mm x 112 mm (7.9 in x 4.4 in) front, 165 mm x 105 mm (6.5 in x 4.1 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

IP Rating:	IP64
Max. & Min. Temperature (Electronics):	-20 °C to +55 °C (-4 °F to +131 °F)
Flammable Atmosphere Approval:	For installation in non-flammable area only. Most compatible transducers suitable for flammable atmospheres. See sensor / transducer datasheet or brochure.
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

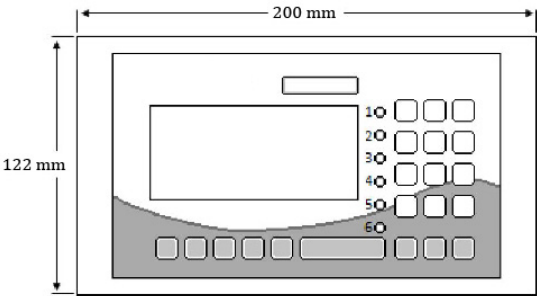|	
Accuracy:	+0.25% of the measured range or 6mm whichever is greater
Resolution:	dBMACH3 0.3 mm (0.01 in), dB3 0.5 mm (0.02 in), dB6 and dB10 1 mm (0.04 in), dB15 1.5 mm (0.06 in), db25 2.5 mm (0.1 in), dB40 5 mm (0.2 in)
Range:	Depending upon transducer, from 125 mm to 40 m (4.9 in to 131.2 ft)
Echo Processing:	Patented DATEM (Digital Adaptive Tracking of Echo Movement)
Digital Communications:	RS485 Modbus RTU or Profibus DP V0 or V1

INPUTS/OUTPUTS:

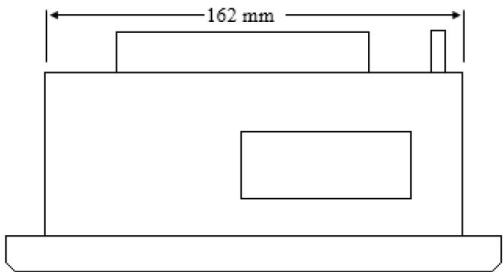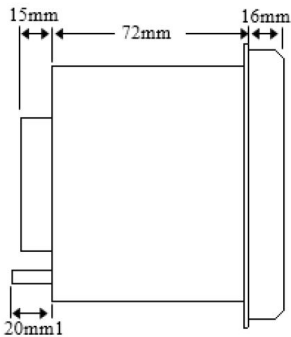|	
Volt-free Contacts:	10 in total. Relays 1-5 form C (SPDT) 5A, 220 V AC. Relays 6-10 form C (SPDT) 3A, 220 V AC
Digital Inputs:	7 NO or NC with 24 V DC internal supply, available max. 20mA
Analog Output (Adjustable):	2 off Isolated output of 4-20mA or 0-20mA into 500 Ω (user programmable and adjustable) 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

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PROGRAMMING

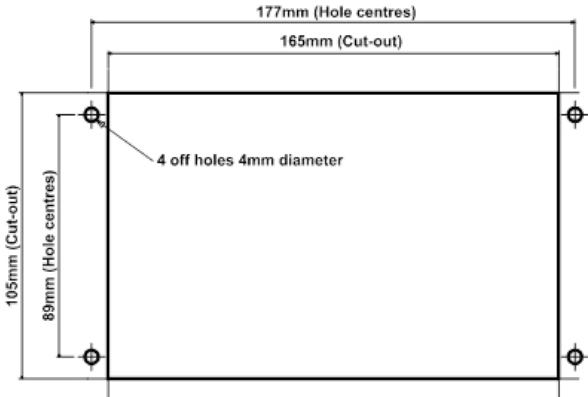|	
On-board Programming:	Standard with integral keypad
PC Programming:	Via RS232 (RJ11 port)
Programming Security:	Via passcode (user selectable and adjustable)
Programmed Data Integrity:	Via non-volatile RAM, plus backup

Quantum 3 Front Drawing

Quantum 3 Top Drawing

Quantum 3 Side Drawing

Cut-Out Dimensions

pulsar MEASUREMENT

Delivering the Measure of Possibility

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