

ZENITH

Technical Specifications:

Pulsar's Zenith is a high specification, pumping station management system. Pulsar's proven, non-contacting, ultrasonic technology provides almost all known pumping routines in an easy-to-use package. By combining advanced ultrasonic level measurement with the control and monitoring of pumps, and providing many other control functions, it is possible to eliminate a PLC by using Zenith in a smaller station.



PHYSICAL: MOUNTING OPTION SPECIFIC

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 kg (2.2 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:	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 EN50082:1995 for immunity, and to BS EN61010-1:1993 for low voltage directive
UL Approval:	UL Listed. UL Listed to Canadian safety standards. Certificate Number: E257330
Power Supply:	115 V AC +5%/ -10% 50/60 Hz, 220 V AC +5%/ -10%, 18-36 V DC

PERFORMANCE

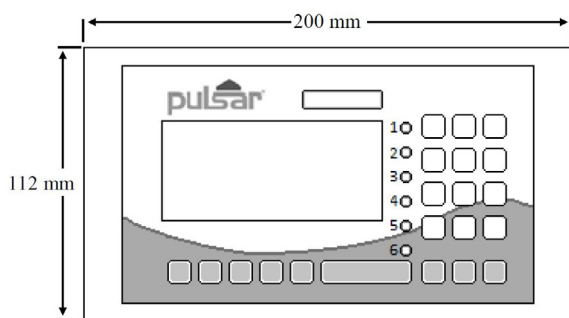
Accuracy:	+0.25% of the measured range or 6 mm whichever is greater
Resolution:	dBMA3 0.25 mm (0.01 in), dB3 0.5 mm (0.02 in), dB6 and dB10 1 mm (0.04 in), dB15 1.5 mm (0.06 in), dB25 2.5 mm (0.1 in), dB40 5 mm (0.2 in)
Range:	Depending upon transducer, from 125 mm to 40 m (0.41 ft to 130 ft)
Echo Processing:	Patented DATEM (Digital Adaptive Tracking of Echo Movement)
Digital Communications:	RS485 Modbus or Profibus DP V0 or V1

PROGRAMMING

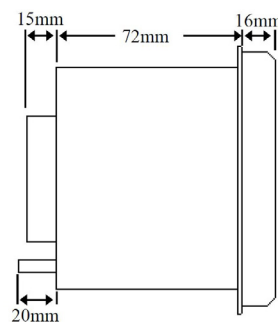
On-board Programming:	Standard with integral keypad
PC Programming:	Via RS232 (RJ11 port)
Programming Security:	Via password (user selectable and adjustable)
Programmed Data Integrity:	Via non-volatile RAM, plus backup

OUTPUTS/INPUTS

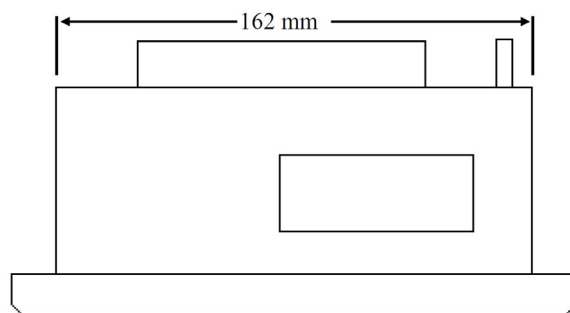
Volt-free Contacts::	6 form "C" (SPDT) 5A, 220 V AC
Digital Inputs:	7 NO or NC with 24 V DC internal supply, available max. 20mA
Analog Output (Adjustable):	Isolated output of 4-20mA or 0-20mA into 500 Ω (user programmable and adjustable) 0.1% resolution
Analog Input:	Isolated input for loop powered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



Zenith Drawing Front



Zenith Drawing Side



Zenith Drawing Top



INFO@PULSARMEASUREMENT.COM

Pulsar Measurement is a trading name of Pulsar Process Measurement, Ltd.

*Copyright © 2020 Pulsar Measurement
Registered Address: 1 Chamberlain Square CS, Birmingham B3 3AX
Registered No.: 3345604 England & Wales*

Delivering the Measure of Possibility

United States

11451 Belcher Road South
Largo, FL 33773

888-473-9546

Canada

16456 Sixsmith Drive
Long Sault, Ont. K0C 1P0

855-300-9151

United Kingdom

Cardinal Building, Enigma
Commercial Centre
Sandy's Road, Malvern WR14 1JJ

+44 (0) 1684 891371

Rev 1.0