SLUDGE FINDER 2

Technical Specifications:

Pulsar's Sludge Finder 2 is a controller and transducer system that provides reliable continuous sludge blanket level measurement. It is used in thousands of applications worldwide for detecting sludge blanket levels in primary, secondary, and tertiary settlement tanks either with stationary or travelling bridges, clarifiers, gravity thickeners, or sequencing batch reactor (SBR) systems.

PHYSICAL

Controller Body Dimensions:	235 mm x 184 mm x 120 mm (9.3 in x 7.2 in x 4.7 in) Wall mount only.
Weight:	Nominal 1 kg (2.2 lb)
Enclosure Material/ Description:	Polycarbonate, flame resistant to UL94-5V
Cable Entry Detail:	10 cable entry knock outs, 5 x M20 and 1 x M16 underside. 4 x PG11 at rear
Transducer Cable Extensions:	2 twisted pair 0.5 mm^2 with overall screen
Maximum Separation:	200 m (656.2 ft)

ENVIRONMENTAL

IP Rating:	IP65/NEMA 4X
Max. & Min. Temperature (Electronics):	-20 °C to +50 °C (-4 °F to +122 °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:	2014/30/EU & 2014/35/EU — EMC Directive. Standards applied: EN 61010-1:2010 / EN 61326-1:2013 / EN 55011 / EN 61000 (3-2 / 3-3 / 4-2 / 4-3 / 4-4 / 4-5 / 4-6 / 4-7 / 4-11
ATEX Approval:	Controller must be within a safe area. See dB transducers for level sensor approvals

OUTPUTS

Analog Output:	2 off isolated (to 150 V floating) output of 4-20mA or 0-20mA into 1 kΩ (user programmable and adjustable) 0.1% resolution
Digital Output:	Half-duplex RS232
Volt Free Contacts, Number, and Rating :	6 form "C" (SPDT) rated at 5 A at 115 V AC
Display:	192 x 128 pixel illuminated graphical display showing a variety of screens including echo profile. Fully programmable display options, integral keypad with menu navigation keys.
Radio Modem (Optional):	4-20mA using wireless exempt frequencies. Maximum range 500 m (1,640 ft) line-of-sight
Communication Bus (Optional):	RS485 Modbus RTU/ASCII or Profibus DPV0 or DPV1 (slave device)

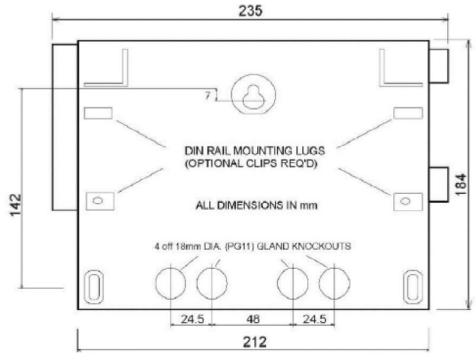
PROGRAMMING

Onboard Programming:	By integral keypad
PC Programming:	Via RS232
Programming Security:	Via passcode (user selectable and adjustable)

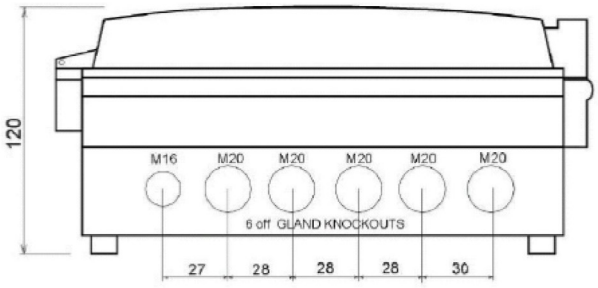
Programmed Data Integrity:	Via non-volatile memory
PC Software:	Sludge Finder PC within PC Software Suite — compatible with XP (service pack 3), Windows 7/8/10

SUPPLY

Operating Voltage:	Universal 100-240 V AC 50/60 Hz, 22-28 V DC
Power Consumption:	20 W maximum power (typically 11 W)
Fuse:	2 A slow blow



Sludge Finder 2 Drawing Back



Sludge Finder 2 Cable Entry Drawing

Delivering the Measure of Possibility

Pulsar Measurement offers worldwide professional support for all of our products, and our network of global partners all offer full support and training. Our facilities in Malvern, UK and Largo, USA are home to technical support teams who are always available to answer your call or attend your site when required. Our global presence, with direct offices in the UK, USA, Canada, and Malaysia, allows us to create close relationships with our customers and provide service, support, training, and information throughout the lifetime of your product.

By taking a step forward in echo processing technology, Pulsar Measurement addresses applications previously thought to be beyond the scope of ultrasonic measurement. This technology improves signal processing at the transducer head which has made it possible to increase resistance to electrical noise, enabling the transducer to 'zone in' on the true echo.

For more information, please visit our website:

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