PULSAR
MEASUREMENT

Greyline
OCF 6.1

Technical Specifications:

The Open Channel Flow 6.1 uses a non-contacting ultrasonic sensor mounted over a flume or weir to measure flow, or inside / above a tank to measure level. It is accurate, reliable, and verifiable. The OCF 6.1 continuously displays, totalizes, transmits, and data logs open channel flow or level.

GENERAL SPECIFICATIONS

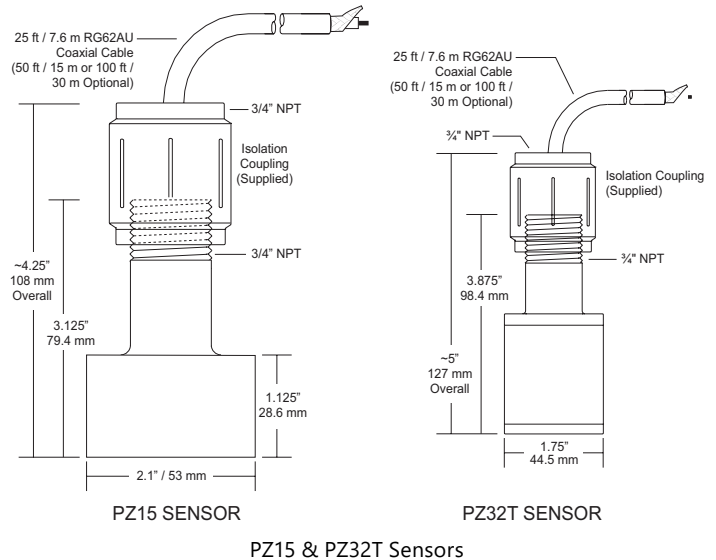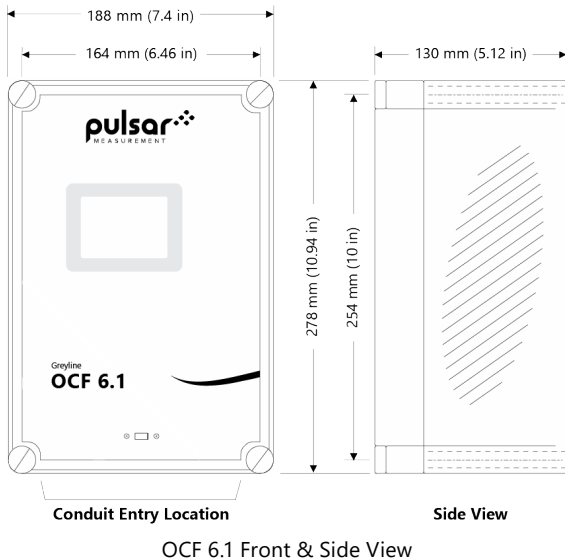|	
Operating Parameters:	Flume or weir to measure flow, or inside / above a tank to measure level
Programming:	Built-in 5-key calibrator with English, French, or Spanish language selection
Electronics Enclosure:	NEMA4X (IP66) polycarbonate with clear, shatterproof cover
Accuracy:	±0.25% of measured range or 2 mm (0.08 in) whichever is greater, Repeatability and Linearity: ±0.1%
Display:	White, backlit matrix — displays flow rate, totalizer, relay status, operating mode, and calibration menu
Power Input:	100-240 V AC 50/60 Hz (see Popular Options), 10 V A max depending on options
Output:	Isolated 4-20mA 0-5 V, 1 kΩ load maximum
Control Relays:	2 Relays, form 'C' dry contacts rated 5 A SPDT; programmable level alarm, pump control, pump alternation, failsafe / echo-loss, air temperature alarm
Data Logger:	Built-in 26 million point data logger with USB output and Windows software.
Operating Temp. (Electronics):	-20 °C to 60 °C (-5 °F to 140 °F)
Approximate Shipping Weight:	4.5 kg (10 lb)
Approvals:	CE, cCSAus

TRANSDUCER SPECIFICATIONS

Maximum Range:	• 4.6 m (15 ft) with standard PZ15 sensor • 9.8 m (32 ft) with standard PZ32T sensor
Operating Temperature:	-15 °C to 80 °C (5 °F to 175 °F)
Deadband (Blanking):	Programmable, Minimum 203.2 mm (8 in)
Beam Angle:	8°
Operating Frequency:	• PZ15: 92 kHz • PZ32T: 42 kHz
Operating Temperature:	-40 °C to 65 °C (40 °F to 150 °F) with automatic temperature compensation
Submersion Rating:	Protected for accidental submersion to 3 m (10 ft) maximum
Sensor Cable:	RG62AU coaxial, 7.6 m (25 ft) standard length (See Popular Options)
Hazardous Locations:	• Non-incendive for Class I, Div 2, Groups A, B, C, D • Optional: Intrinsically safe for Class I, Div 1, Groups C, D; Class II, Groups E, F, G; Class III; Encl. Type 4

POPULAR OPTIONS

Industrial Automation Protocols:	Modbus RTU via RS485
Transducer Cables:	15.2 m (50 ft) continuous or 30.5 m (100 ft) continuous RG62AU coaxial from sensor, or splice up to 152.4 m (500 ft) with junction box

Intrinsic Safety Barriers:	For sensor mounting in Class I, Div 1, Groups C, D; Class II, Groups E, F, G; Class III; Encl. Type 4 hazardous locations
Power Input:	9-32 V DC, 10 W max
Control Relays:	4 additional (6 total), rated 5 A SPDT
Enclosure Heater:	Thermostatically controlled to -40 °C/°F — recommended for temperatures below 0 °C (32 °F)
Sunscreens:	Sensor sunscreen and enclosure sunscreen for outdoor installations
Sensor Mounting Stand:	Adjustable, includes galvanized steel pipe, flanges, fittings, and hardware

OCF 6.1 Front & Side View

PZ15 & PZ32T Sensors

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.

For more information, please visit our website:

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