

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

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

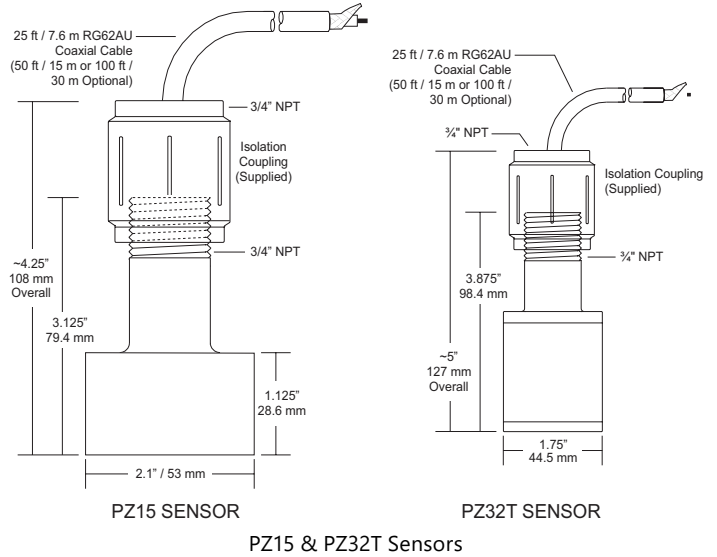
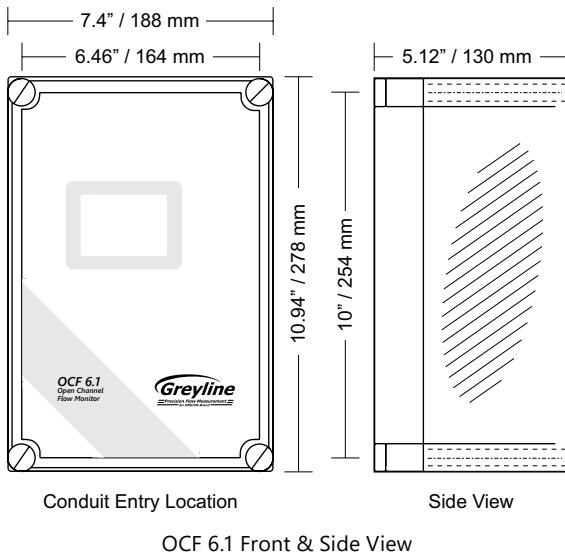
### TRANSDUCER SPECIFICATIONS

<b>Maximum Range:</b>	<ul style="list-style-type: none"> <li>• 4.57 m (15 ft) with standard PZ15 sensor</li> <li>• 10 m (32 ft) with standard PZ32T sensor</li> </ul>
<b>Operating Temperature:</b>	-15 °C to 80 °C (5 °F to 175 °F)
<b>Deadband (Blanking):</b>	Programmable, Minimum 8 in (203.2 mm)
<b>Beam Angle:</b>	8°
<b>Operating Frequency:</b>	<ul style="list-style-type: none"> <li>• PZ15: 92 kHz</li> <li>• PZ32T: 42 kHz</li> </ul>
<b>Operating Temperature:</b>	-40 °C to 65 °C (40 °F to 150 °F) with automatic temperature compensation
<b>Submersion Rating:</b>	Protected for accidental submersion to 3 m (10 ft) maximum
<b>Sensor Cable:</b>	RG62AU coaxial, 7.6 m (25 ft) standard length (See Popular Options)

### POPULAR OPTIONS

<b>Industrial Automation Protocols:</b>	Modbus RTU via RS-485
<b>Transducer Cables:</b>	15 m (50 ft) continuous or 30 m (100 ft) continuous RG62AU coaxial from sensor, or splice up to 150 m (500 ft) with junction box
<b>Intrinsic Safety Barriers:</b>	For sensor mounting in Class I,II,III, Div. I,II, Groups C,D,E,F,G hazardous locations
<b>Power Input:</b>	9-32 V DC, 10 W max

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



## Delivering the Measure of Possibility

Pulsar Measurement offers worldwide professional support for all of our products, and our network of reps and distributors 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 allow 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:

[www.pulsarmeasurement.com](http://www.pulsarmeasurement.com)



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

**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