

# VIPER TRANSDUCER

## Technical Specifications:

The Viper sludge transducer can be positioned up to 200 m (656.2 ft) from the controller and has a measurement range of 300 mm to 10 m (11.8 in to 32.8 ft) — accuracy is 0.25% of the measured range. A tight 6° beam angle makes confined or cluttered applications easy and the self-cleaning face removes the need for regular inspection and maintenance — meaning you can avoid that unhygienic and hazardous task you hate!



### PHYSICAL

**Sensor Body Dimensions:** 78 mm D x 195 mm H (3.1 in x 7.7 in)

**Weight:** Nominal 1.5 kg (3.3 lb)

**Enclosure Material/Description:** Valox 357. Wiper blade — Stainless steel

**Transducer Cable Extensions:** 4-core screened

**Maximum Separation:** 200 m (656.2 ft)

### ENVIRONMENTAL

**IP Rating:** IP68

**Max. & Min. Temperature (Electronics):** -20 °C to +50 °C (-4 °F to +122 °F)

**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:** Viper transducer must be within a safe area

### PERFORMANCE

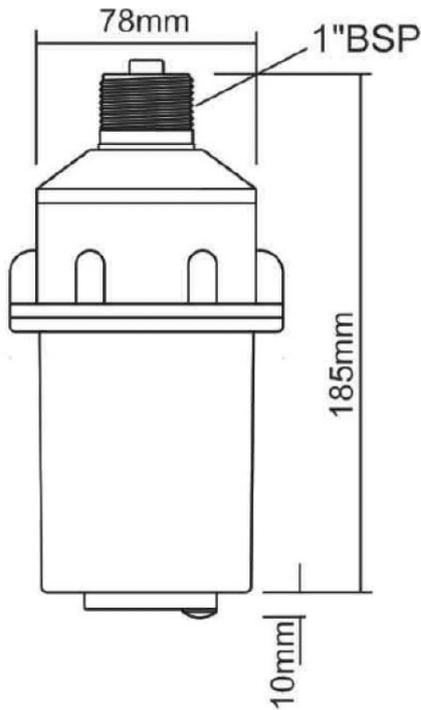
**Accuracy:** 0.25% of the measured range or 10 mm (0.4 in), whichever is greater

**Resolution:** 0.25% of the measured range or 10 mm (0.4 in), whichever is greater

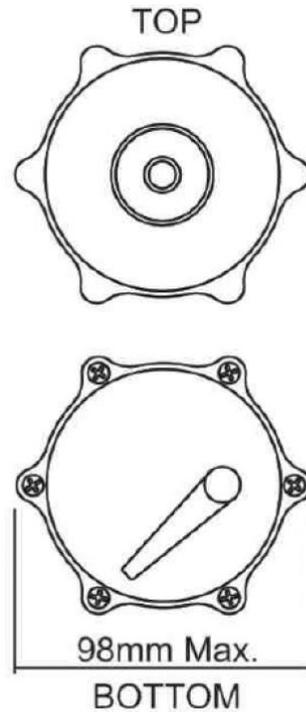
**Max Range:** 10 m (32.8 ft)

**Min Range:** 300 mm (11.8 in)

**Minimum Sludge Density:** 0.5% concentration



Viper Transducer Side Drawing



Viper Transducer Top and Bottom 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 allow 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:

[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

+1 888-473-9546

### Canada

16456 Sixsmith Drive  
Long Sault, Ont. K0C 1P0

+1 855-300-9151

### United Kingdom

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

+44 (0) 1684 891371

Rev 3.0