

# ULTRATWIN

## Technical Specifications:

Flexibility is the UltraTWIN two channel ultrasonic system. Each channel is user-configurable to operate independently either as a full function open channel flow monitor, a pump control system, or as a level and volume monitoring unit for liquids or solids, calculating volumes and providing alarms.



### PHYSICAL: MOUNTING OPTION SPECIFIC

Mounting Option:	Standard Wall Mount:	Fascia Mount:
<b>Controller Body Dimensions:</b>	235 mm x 184 mm x 120 mm (9.3 in x 7.2 in x 4.7 in)	200 mm x 112 mm x 108 mm (7.9 in x 4.4 in x 4.3 in) Cutout: 165 mm x 105 mm (6.5 in x 4.1 in)
<b>Weight:</b>	Nominal 1 kg (2.2 lb)	Nominal 1 kg (2.2 lb)
<b>Enclosure Material / Description:</b>	Polycarbonate, flame resistant to UL 94-5V (wall), UL94-V0 (fascia)	Polycarbonate, flame resistant to UL 94-5V (wall), UL94-V0 (fascia)
<b>Cable Entry Detail:</b>	3 x M20 glands	
<b>Transducer Cable:</b>	Twin Screened	
<b>Maximum Separation:</b>	1,000 m (3,280 ft)	

### ENVIRONMENTAL

<b>IP Rating:</b>	IP65 (Standard), IP64 (Fascia)
<b>Max. &amp; Min. Temperature (Electronics):</b>	-20 °C to +50 °C (-4 °F to +122 °F)
<b>Flammable Atmosphere Approval:</b>	For installation in non-flammable area only. Most compatible transducers suitable for flammable atmospheres. See sensor / transducer datasheet or brochure.
<b>CE Approval:</b>	See the CE Declaration of Conformity in the product manual
<b>UL Approval:</b>	UL Listed. UL Listed to Canadian safety standards. Certificate Number: E257330 (wall and fascia mounts only)

### PERFORMANCE

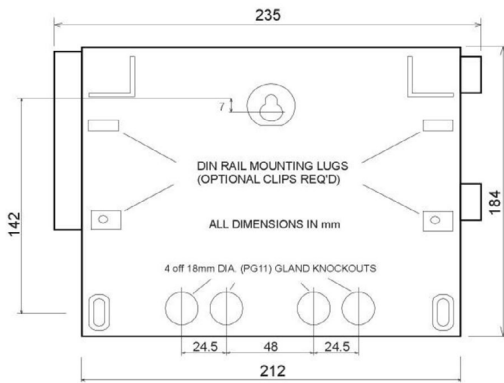
<b>Accuracy:</b>	+0.25% of the measured range or 6 mm (0.2 in), whichever is greater
<b>Resolution:</b>	+0.1% of the measured range or 2 mm (0.08 in), whichever is greater
<b>Range:</b>	<ul style="list-style-type: none"> <li>125 mm to 40 m (4.9 in to 131.2 ft), depending on transducer</li> <li>0 mm to 2.4 m (0 in to 7.9 ft), with dBMACH3 for open channel flow</li> </ul>
<b>Echo Processing:</b>	Patented DATEM (Digital Adaptive Tracking of Echo Movement)

### OUTPUTS / INPUTS

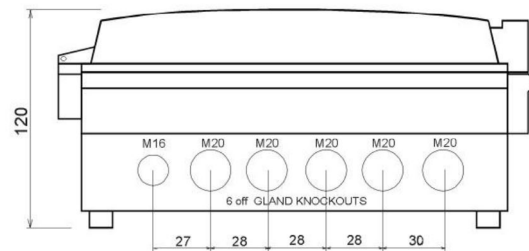
<b>Analog Output:</b>	2 x Isolated output 4-20mA or 0-20mA into 500 (user programmable and adjustable), 0.1% resolution
<b>Digital Output:</b>	Full duplex RS232 via RJ11 port
<b>Display:</b>	6 digits plus 12 character text, plus bar graph with direction indicators, remote communicator identifier, and program / run / test mode indicators
<b>Digital Inputs:</b>	Wall = 4, Fascia = 7, normally open or normally closed, 24 V DC supply

## PROGRAMMING

<b>Onboard Programming:</b>	Standard wall and fascia mount units with integral keypad
<b>PC Programming:</b>	Via RS232 (RJ11 port)
<b>Programming Security:</b>	Via password (user selectable and adjustable)
<b>Programmed Data Integrity:</b>	Via non-volatile RAM, plus backup
<b>Power Supply:</b>	115 V AC +5%/-10% 50/60 Hz, 230 V AC +5%/-10%, 18-30 V DC
<b>Volt-free Contacts:</b>	6 form C (SPDT) 5 A, 240 V AC



UltraTWIN Drawing Back



UltraTWIN Drawing Cable Entry

## 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:

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



INFO@PULSARMEASUREMENT.COM

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

*Copyright © 2021 Pulsar Measurement  
Registered Address: 1 Chamberlain Square CS, Birmingham B3 3AX  
Registered No.: 3345604 England & Wales*

**United States**  
+1 888-473-9546

**Asia**  
+60 102 591 332

**Canada**  
+1 855-300-9151

**Oceania**  
+61 428 692 274

**United Kingdom**  
+44 (0) 1684 891371

**pulsarmeasurement.com**