

ultra Twin

twin-channel ultrasonic level/volume monitoring, pump control and open channel flow measurement

NEW!!
fascia mount version available



Any combination of:
Level & volume monitoring
Sophisticated pump control
OCM flow measurement to BS3680



PULSAR
Process Measurement

Pulsar *ultra* Twin

Flexibility is the keyword for the *ultra* Twin dual-channel ultrasonic system from Pulsar. Each channel is user-configurable to operate either as a full function open channel flow monitor calculating flow rate to BS3680, a pump control system or as a level and volume monitoring unit for liquids or solids, calculating volumes and providing alarms. *ultra* Twin is compatible with the full range of Pulsar's dB transducers, from the ultra-high resolution dBMACH 3 to the powerful 40m range dB40. Six relays configurable to either channel provide a wealth of alarm and control options.

Pulsar *ultra* Twin - Level/volume Measurement

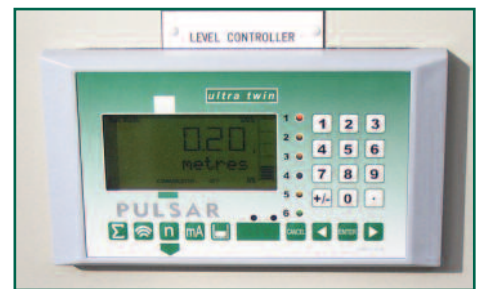
Use the **Level/volume** Measurement setting and *ultra* Twin gives you everything you would get from the Pulsar Ultra 3 or Ultra 5 in level measurement mode. *ultra* Twin in Level/volume mode will calculate volumes based on a wide variety of standard tank shapes and is equally at home measuring liquids and solids, using Pulsar's world-leading DATEM (Digital Adaptive Tracking of Echo Movement) echo analysis system.

Pulsar *ultra* Twin - Open Channel Flow Measurement

When you select the Open Channel Flow option, you are getting the full power of Pulsar's flow measurement expertise, the choice of Europe's waste water companies and process industries to measure open channel flow within effluent treatment processes. Features include on-board totalisation and pulsed output. *ultra* Twin provides outstanding accuracy when teamed with the ultra-high resolution dBMACH 3 transducer.

Pulsar *ultra* Twin - Pump Control

In pump control configuration, *ultra* Twin provides all the power of the Pulsar Ultra 3, used throughout the global water industry for critical pump control applications, and more. Extremely reliable level monitoring even in the most difficult applications, *ultra* Twin also provides a wide range of sophisticated pump control routines to keep the application running perfectly. *ultra* Twin also includes four digital inputs, making it possible to monitor the performance of other equipment, for example a no-flow signal from a pump can trigger an alarm without the need for a PLC.



fascia mount version

Pulsar *ultra* Twin -Data Logging/Digital Communications

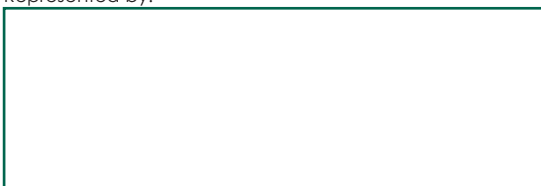
Optionally, a powerful data logging solution can be added to the *ultra* Twin system. With the factory addition of an extra board, level and flow information is recorded and "date stamped" at user defined intervals to build up a complete picture of the changing situation on site. Information may be stored for up to a year, and easily downloaded to a computer through a standard RJ11 (computer/telephone) connection. The data logging solution offers Pulsar's Elephant Ultra software package, which records and charts data and trends in an easily accessible form. See technical update sheet TU003L

ultra Twin may also be upgraded to include RS485 communications, operating the Modbus or Profibus protocols. More information on both of these upgrades is available on request.

Specification

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|-------------|--|
| Physical | Wall mount: Dimensions: 240mm x 184 x 118, Weight: 1Kg nominal, Box Material: Polycarbonate, IP rating: IP65, Max separation (to transducer): 1000m (twin screened cable), Temperature range: -20 to +50°C. Fascia mount: Dimensions: 200mm x 112 x 108, Weight: 1.3kg nominal, Box material: stainless steel back, ABS front and bezel, IP rating: IP64 (others as wall mount) |
| Performance | Accuracy: greater of 0.25% of range or 6mm, Resolution: up to ± 1 mm dependent on transducer, Range: from 75mm to 40m dependent on transducer, Echo processing: patented DATEM |
| Inputs: | 4 digital inputs, normally open or normally closed with 24V dc supply |
| Outputs | Analogue: Isolated 4-20mA / 0-20mA into 500 Ω per channel , Relays: 6 form C (SPDT) 5A 240V, Digital: full duplex RS232 via RJ11 port. |
| Power | 115V ac +5% -10% 50/60Hz, 230V ac +5% -10% 50-60Hz, dc 10-36V |

Represented by:



Certificate No: 950136
UTwin 1c: KDF 2/08 GEM

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