

Pulsar Process Measurement

A world leader in non-contacting level and flow measurement equipment since 1997

As a pioneer of digital echo processing through patented DATEM software, and an innovative manufacturer of the new generation of ultrasonic devices, Pulsar has taken the measurement technique into new areas, new application where non-contacting measurement could not previously have been contemplated.

In doing so, Pulsar has developed a superb product range which allows engineers to select exactly the instrument to meet their needs, whether that is for sophisticated monitoring and control of a sump or lift station with several pumps; high accuracy, high stability open channel flow measurement including Class 1 MCERTS approval; remote contents monitoring of a multitude of sites with SMS messaging protocol; distributed control of a process plant or just for simple alarms on a single tank.

Reliable, well engineered point level measurement instruments, process protection devices and the exceptional Sludge Finder 2 interface monitor complete the range, along with software and accessories to help you get the best from the equipment.

We pride ourselves on our attention to detail and customer service. From your first contact with our office through to final set up of your equipment, Pulsar's staff are dedicated to the success of your project, offering advice, consultation and support to ensure that you get the best possible results.

Pulsar's development was recognised with the award of the prestigious Queen's Award for Enterprise: Export Achievement 2009. You can buy Pulsar equipment anywhere in the world secure in the knowledge that it is supported by probably the best distributor network in the industry.



**pulsar**
PROCESS MEASUREMENT®

Welcome:

dBiTransducers

dBi Series of
Intelligent
Transducers

- DATEM (digital echo processing)
- Non-contacting level and flow measurement
- IP68
- 2 models HART protocol (version 7) or Profibus (3.0.2) low power consumption
- Solids or liquids applications, available in 4 version 125mm to 15m for each protocol
- ATEX Ex mb Zone 1 standard
- Option of ATEX Zone 0 I.S.



IMP Lite

IMP Lite:
self-contained,
compact, intelligent

- Calibrate without compromising the IP67 rating
- Mounts on 1.5" universal thread (2" on IMP 10)
- Easy to calibrate settings menu on display
- High power and narrow beam angles
- 3m, 6m and 10m range versions
- 4-20mA loop powered
- Low power consumption and fast response
- Accuracy 0.25% of the range or 6mm, whichever is greater
- Resolution $\pm 0.1\%$ or 2mm, whichever is greater
- Intrinsically Safe (I.S.) versions available



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- High power and narrow beam angles
- 3m, 6m and 10m range versions
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- **2 relays (DC mode)**
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Blackbox

Component
ultrasonic system
with range of
outputs

- Programmable via PC or handheld programmer
- Compatible with the full range of transducers, dB3 (3m) to dB40 (40m)
- Outputs:
 - 2 relays and 4-20mA
 - 2 relays and 0-5V
 - 2 relay output and Modbus or Profibus
- Low power data logging version
- Optional volume calculations display
- Pump Control
- Patented DATEM software processing echoes
- AC or DC power supply



Ultra 3 & 5

Versatile
multifunctional
controllers

- Multiple configurations: level, volume, station pumping, open channel flow
- Compatible with the full range of transducers, dB3 (3m) to dB50 (40m)
- Mounting: panel, wall or rack versions
- Choice of display and output: 3 or 5 relays, 4-20mA
- Optional Profibus DP or Modbus communication v0 and v1
- Optional data logging
- Calculation of flow optimisation, 32-point linearisation
- Sophisticated pump control and tank functions for volume calculations
- Patented DATEM echo processing software
- AC or DC power supply



Ultra Twin

Two independent
measurement
channels

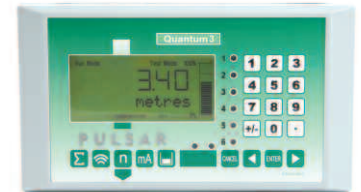
- Volume, level, pump control, open channel flow on two measurement points
- Two dB transducers from 3m to 40m range
- Mounting: wall or panel versions
- Output: 6 relays used for each channel
- Two 4-20mA outputs
- Optional Profibus DP or Modbus communication v0 or v1
- Optional data logging
- Calculation of flow optimised, 32-point linearisation
- Sophisticated pump control and tank functions for volume calculations
- Patented DATEM echo processing software
- AC or DC power supply



Zenith & Quantum

Multifunctional
control systems
for pumping
stations

- Advanced pump control function
- Compatible with the full range of transducers, dB3 (3m) to dB40 (40m)
- Optional 6 or 10 relay outputs
- 7 digital inputs used
- Panel mounting
- 4-20mA output
- Optional Profibus DP or Modbus communication v0 or v1
- Optional data logging
- Specific Applications: Process sequences adapted
- Patented DATEM echo processing software
- AC or DC power supply



FlowCERT

High-accuracy
open channel flow
measurement

- Use with unique DUET transducer for a guaranteed accuracy ± 1 mm, or a dBMACH3 transducer associated with speed sensor for calculating flow optimisation
- Mounting: wall or panel versions
- 4-20mA, 5 relay outputs
- Optional Profibus DP or Modbus communication v0 and v1
- Optional data logging
- Calculation of flow optimisation, 32-point linearisation
- Patented DATEM echo processing software
- AC or DC power supply



dB Transducers

From 125mm to
50m. High power
and tight beam
angles

- Special DBMACH3 transducer for open channel flow
- IP 68
- 1000m maximum between transducer and controller
- Standard industry connections
- PVDF, PTFE chemical resistant faces and solid application (aiming kit) options
- ATEX Zone 1 standard
- Optional Intrinsically Safe (I.S.) ATEX Zone 0



Sludge Finder 2

Ultrasonic sludge interface controller

- Self-cleaning transducer
- Simple installation and reduced maintenance
- Suitable for all types of sludge (primary, secondary, tertiary)
- 0.5% density threshold
- Flexible, immersible mounting rod
- Relay output, 4-20mA output
- Viewable profile of sludge blanket



Flow Pulse

Revolutionising non-invasive flow measurement

- Simple installation – simply fix the unit to the outside of a metal, PVC or plastic pipe
- DC supply
- Version 1 (30-350mm), Version 2 (30-1000mm)
- Flow range of 0.3m/s to 4m/s
- IP68 protection
- Digital RSSA Processing
- Outputs: RS485 and 4-20mA and 1 volt free programmable relay
- Repeatability and accuracy of approximately $\pm 5\%$
- ATEX E xm option (pending)



Contact Us

International Representation

Pulsar Process Measurement is represented around the world, if you have a question, click on the "Contact Us" section of our website for information on our agents and distribution partners.

www.pulsar-pm.com

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