



PRODUCT BROCHURE



Delivering the Measure of Possibility

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Pulsar Measurement designs, manufactures, and supports advanced flow and level measurement solutions, built around real customer needs. We develop all our patented and trademarked technologies in-house, owning the full lifecycle of every product: from design to delivery. This control enables us to solve the toughest measurement challenges with simplicity, accuracy, and reliability. Trusted worldwide in water, wastewater, and industrial applications, our ultrasonic and radar instrumentation delivers proven performance.

We listen first, design with purpose, and back every solution with responsive, expert support from real people who understand your application. With teams and facilities in the UK, USA, Canada, and Malaysia, we combine global reach with local presence to make complex measurement simple.

Order Processing

How to get a quote

To request a quotation, contact your regional Pulsar Measurement sales team or use the appropriate shared mailbox below for your location.



europe@pulsarmeasurement.com
northamerica@pulsarmeasurement.com
asiapacific@pulsarmeasurement.com

To ensure we produce an accurate quote tailored to your application, include the following:

1. Name of required product(s)
2. Corresponding product(s) part number
3. Quantity required for each product
4. Brief description of the application including the measurement range

Quotes are usually completed and sent within 24 hours.

How to place an order

For all sales orders, contact your regional Pulsar Measurement sales team. Have the following details ready before placing your order:



1. Quote number is applicable
2. Name of required product(s)
3. Corresponding product(s) part number
4. Quantity required for each product
5. Brief description of the application
6. Delivery address
7. Any post-delivery activities required

Non-contacting Flow Measurement

- Measures flow from outside the pipe
- No shutdown or downtime to install
- Easy to install & configure
- No wear & tear
- Price of meter is independent of pipe size
- Certificate of calibration included

TTFM 6.1 Transit Time Flow Meter



APPLICATIONS

- Treated water
- Raw water
- Cooling water
- Chemicals
- DI/RO water



The TTFM 6.1 is a non-invasive flow measurement system designed for fluids such as water and chemicals. It features three sizes of transducers to accommodate pipe diameters ranging from 15 mm to 1,200 mm (0.5 in to 48 in). The intuitive 5-button interface ensures easy installation and setup, while the system offers versatile output options including 4-20 mA, relays, HART, and Modbus for flexible integration.

PTFM 6.1 Portable Transit Time Flow Meter



APPLICATIONS

- Treated water
- Raw water
- Cooling water
- Chemicals
- DI/RO water



The portable, non-invasive flow measurement system is ideal for fluids such as water and chemicals. It simplifies flow verification with three transducers that accommodate a broad range of pipe sizes and materials. The system's rugged IP67 design ensures durability, while its powerful signal processing and user-friendly interface make it both efficient and easy to operate.

DFM 6.1 Doppler Flow Meter



APPLICATIONS

- Sewage
- Sludge – RAS & WAS
- Slurries
- Oil production
- Municipal and Industrial Wastewater



The DFM 6.1 is a non-invasive flow measurement system designed to handle fluids that contain suspended solids or entrained air. It utilizes a single transducer, making it easier to install and set up compared to traditional flow meters. The system supports various output options including 4-20 mA, relays, HART, and Modbus, providing flexibility for integration into different monitoring and control systems.

PDFM 6.1 Portable Doppler Flow Meter



APPLICATIONS

- Municipal and Industrial Wastewater
- Aerated Water
- Slurries
- Oil Production
- Pulp stock & liquors



This rugged and portable non-invasive flow measurement system is ideal for fluids containing entrained solids or gases. It features a single sensor that clamps easily onto a variety of pipe sizes and materials, making installation both fast and straightforward. The system can be used for immediate flow verification or left on-site as a logger for extended periods, ranging from several days to weeks.

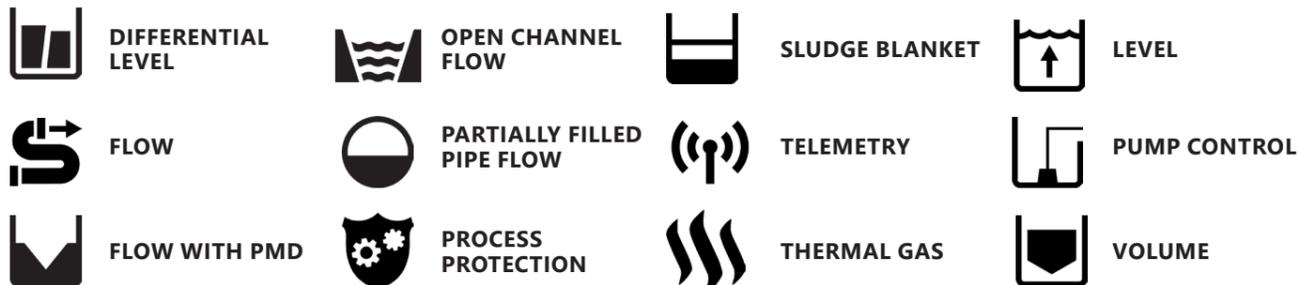
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PULSARVILLE City of Solutions

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Measurement Type Legend



Area-Velocity Flow Measurement

- Accurately measure flow in partially filled pipe & channels without a flume or weir
- Easy to install & configure
- Non-contacting & contacting solutions
- Permanent or portable versions available
- Solutions for small, large channels & streams

AVFM 6.1 Area Velocity Flow Meter



APPLICATIONS

- Municipal wastewater
- Industrial wastewater
- Stormwater
- Combined sewers
- Natural streams
- Irrigation



To measure flow in partially filled pipes or channels without a flume or weir, you can use a system that senses velocity, level, and temperature. It's easy to set up for different channel shapes and sizes, requires little to no maintenance since it has no moving parts, and offers three 4-20 mA outputs, relays, and Modbus for data handling.

FlowCERT, MicroFlow, & dBMACH3 Open Channel Flow Controller



APPLICATIONS

- Open channels
- River, creek, or stream flows
- Influent or effluent flow monitoring
- Metals and mining
- Stormwater
- Irrigation
- Groundwater monitoring



This non-contact system offers 1-year logging at 10-minute intervals, supports Modbus RTU and Profibus, and works standalone or in full flow setups. It ensures accurate, maintenance-free operation with zero blanking and solar protection, and supports multiple sensors for wide channels. ATEX and FM approved for hazardous environments.

Area-Velocity Flow Measurement (continued)

FarSight™ Non-contacting Velocity Measurement



APPLICATIONS

- Open channels or pipes with no PMD
- River, creek, or stream flows
- Influent or effluent flow monitoring
- Metals and mining
- Stormwater
- Irrigation
- Groundwater monitoring



FarSight™ accurately measures low velocities with wide beam coverage and automatic tilt compensation. It operates reliably in harsh weather, supports long-range sensing, consumes low power, and offers Modbus output for easy integration with Pulsar Measurement or third-party systems.

MicroFlow Non-contacting Velocity Measurement



APPLICATIONS

- Effluent Flow
- Open Channel Flow
- Water & Wastewater
- Quarry & Mining



MicroFlow, a non-contacting device, features extremely low power consumption and a lightweight, compact, rugged design. It offers minimal installation costs without interrupting service and is maintenance-free, making it a cost-effective solution. An optional mounting bracket is also available for added convenience.

Open Channel Flow Meters with a Flume or Weir

- Standard flumes, weirs, & custom Primary Measurement Device (PMD)
- Easy to install & configure
- World leading accuracy independently certified
- Maintenance-free

MantaRay Portable Area Velocity Flow Meter



APPLICATIONS

- Treated water
- Raw water
- Cooling water
- Chemicals
- DI/RO water



The MantaRay is a portable flow measurement system designed for partially filled pipes and channels, eliminating the need for a flume or weir. It can be deployed as a logger to collect data over several weeks and extended logging sessions with an external battery connection. Its rechargeable battery allows for continuous use without relying on an external power source.

StingRay 2.0 Portable Level Velocity Logger



APPLICATIONS

- Flow Surveys
- Inflow & Infiltration Studies
- CSO Monitoring
- Stormwater Runoff
- Irrigation Water
- Permit Compliance
- Flow Studies



This portable low-power device measures water level and velocity in open channels without a flume or weir, runs on D-cell batteries, logs 130,000 data points, and features USB transfer, real-time LCD display, and Windows software.

Ultra 4 & dBR8 Transducer or dB3 with Double Sun Shield Advanced Flow, Level, Volume, & Pump Control



APPLICATIONS

- Open channel flow & level
- Wastewater & industrial effluent
- Stormwater
- Irrigation
- Flow monitoring
- Groundwater monitoring



The multi-functional system simplifies setup and monitoring with echo profiles, trend graphs, built in flow and volume calculations. It supports extended logging via Micro SD and works with all dB/dBR transducers. Built for reliability with ATEX, cFmus, UL and MCERTS Class 1 certifications.

OCF 6.1 Non-contacting Open Channel Flow Meter



APPLICATIONS

- Municipal influent & effluent
- Industrial effluent
- Stormwater
- Natural streams
- Irrigation



This device provides accurate and reliable non-contact flow measurement in partially filled pipes and channels, even where a flume or weir is installed. Its ultrasonic level sensor is easy to install above the fluid and requires no maintenance. With standard analog output and a 26-million-point data logger, it offers seamless data collection and comes with free software for easy report generation.

Level Measurement

- From loop powered level control through to intelligent pump control
- Non-contacting

- Both radar and ultrasonic technologies
- Maintenance-free
- Low power level solutions

dB Ultrasonic Transducer Series

Non-contacting Ultrasonic Transducer



APPLICATIONS

- Wet well level measurement
- Tank level measurement
- Silo level measurement
- Pump control applications
- Shaft tank monitoring



The dB transducer series feature proprietary DATEM echo processing technology for enhanced measurement accuracy, with a strong signal-to-noise ratio and excellent resolution. Includes integral temperature compensation and a narrow beam angle for precise targeting. It supports cable extensions up to 1,000 meters (3,281 feet) and a measurement range of up to 40 meters (131.2 feet). It is also ATEX & cFMus approved.

dBi Intelligent Ultrasonic Sensor

Non-contacting Intelligent Ultrasonic Sensor



APPLICATIONS

- Liquids & solids measurement
- Level & volume measurement
- Remote level monitoring
- Tank level monitoring
- Event duration management



This 2-wire, loop-powered device provides a 4-20mA output, featuring a strong signal-to-noise ratio and excellent resolution. It uses DATEM echo processing for improved measurement accuracy and communicates via Device Type Manager (DTM) with FDT applications. With a narrow beam angle for precise measurements and a range of up to 15 meters (49.2 ft), it has ATEX & cFMus approvals and supports HART and Modbus communication protocols.

IMP Range

Ultrasonic, non-contacting level measurement



APPLICATIONS

- Tank level applications
- Chemical dosing
- Simple level indication
- Open & closed vessel level requirements
- Solids level indication
- DI/RO water



The IMP device combines a transducer and controller with a range of up to 10 meters (32.8 ft). It allows for calibration without affecting its IP67 rating and features a simple, menu-led setup via a built-in display and keypad. With high power and narrow beam angles, it ensures accurate and reliable level measurement. An ATEX option is also available.

Level Measurement (continued)

PULSAR REFLECT™

2-wire Radar Level Sensor



APPLICATIONS

- Applications needing high accuracy
- High electrical or acoustic noise applications
- Turbulent applications with foam
- Dosing Plants & IBC's
- Digesters



PULSAR REFLECT™ is a 2-wire, 4-20mA loop powered device with FMCW radar technology. With a range up to 36 m and accuracy of +/-2mm, it has a beam angle of 6°. It features easy installation with REFLECT/TILT™ LED indication, BReez™ mounting adapter, and DATEM software for reliable measurements in tough conditions. The Bluetooth interface enables user-friendly configuration, and it supports FDT applications via DTM. ATEX & cFMus approved, it also offers HART communication.

dBR Radar Transducer Series

Non-contacting Radar Level Transducer



APPLICATIONS

- Foamy applications
- Application's subject to high electrical noise
- Atmospherically volatile applications
- Chemical dosing plants & IBCs
- Digester level monitoring



Ideal for applications with varying atmospheric conditions or heavy vapors and fumes, the dBR offers a strong signal-to-noise ratio and excellent resolution. It has extremely low power consumption and minimal installation costs without service interruptions. With a narrow beam angle and the ability to dynamically track levels using proprietary DATEM echo processing technology, it provides accurate measurements up to 16 meters (52.5 feet). Maintenance-free and ATEX approved, it ensures reliable performance in challenging environments.

Controllers

- Controllers work with all dB & dBR transducers
- From loop powered level control through to intelligent pump control
- Low power level solutions
- Ease of use
- Various mounting options available

Ultra 4

Multi-functional Controller with 4 relays



APPLICATIONS

- Pump control
- Open channel flow & level
- Chemical dosing
- IBC tank level
- Storage tank levels
- CSO & sewer network monitoring DI/RO water



The Ultra 4 Controller features a multi-function display for easy setup and configuration, with on-screen monitoring that includes echo profiles and trend graphs. It offers built-in volume calculations for standard tank shapes or custom calibration curves and extends data logging with an on-board Micro SD card. It is compatible with all dB and dBR transducers, supporting ranges up to 40 meters (131.2 feet).

Ultra 5

Multi-functional Controller with 5 relays



APPLICATIONS

- Solid & liquid tank level monitoring
- Differential level control
- Well level measurement
- Pump control & exercising
- Open channel flow measurement with flumes & weirs



The Ultra 5 Controller offers quick and easy setup with an onboard, menu-driven software tool and comes pre-programmed with various tank shapes. It features 5 assignable relays with additional alarm options, such as pump efficiency monitoring. An optional data logging board allows users to record data for the product's lifetime. It is compatible with all dB and dBR transducers, supporting ranges up to 40 meters (131.2 feet).

Ultra TWIN

Twin-channel, Multi-functional Controller



APPLICATIONS

- Effluent discharge monitoring
- Shaft tank dual-chamber measurement
- Dual channel monitoring
- Screen house monitoring
- Sophisticated pump control



The Ultra TWIN features a dual display for monitoring two measurements simultaneously and offers an easy prompt-led setup. It includes a data logging option that records and charts data and trends for easy access. Compatible with all dB and dBR transducers, it supports ranges up to 40 meters (131.2 feet).

Ultimate Controller

Intelligent Pump Controller



APPLICATIONS

- Advanced pump control
- Level measurement
- Flow monitoring
- Pump performance monitoring
- Asset management



The modular and expandable Ultimate Controller platform delivers savings by reducing energy consumption, detecting potential blockages early, and performing automatic resets. It automatically selects the most efficient pump for your application, balancing run times and improving overall pump health.

Controllers (continued)

Quantum 3

Intelligent Pump Controller



APPLICATIONS

- Pump control
- 'Time to Spill' warning requirements
- Reduction in power costs
- Pump monitoring & control
- Pump station control
- Solids level indication
- DI/RO water



The Quantum 3 features a "time to spill" alarm for high-risk areas, aiding in site management. It can power up to 4 FlowPulse units, ensuring that all flow-rate alarms and controls are based on real measurements. It includes pump efficiency alarms, peak power tariff avoidance, and a totalizer that sums real throughput rather than relying on level measurement. Additionally, it provides storm detection and NRV leakage alarms and operates with all dB and dBR transducers up to 40 meters (131.2 feet).

Zenith

Intelligent Pump Controller



APPLICATIONS

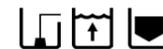
- Pump station control
- Tariff change monitoring
- Energy savings
- Well monitoring
- Pump control & monitoring
- Well capacity & performance



The Zenith includes advanced pump control features as standard, helping to reduce capital costs by eliminating the need for PLCs on smaller sites. It lowers power costs through intelligent use of lower tariff periods for pumping. With 7 digital inputs for monitoring pumps or controls and a totalizer for tracking volume throughput, it operates with all dB and dBR transducers up to 40 meters (131.2 feet).

PSL 5.0

Hybrid, Pump Station Level Controller



APPLICATIONS

- Pump stations
- Tank level control



The easy-to-use simple menu system and built-in keypad can be used to program application parameters such as measurement ranges, relay set points, and pump alternation sequences. The PSL 5.0 also includes the ability to connect a submersible pressure sensor, or any other 4-20mA level sensor, for fail-safe hybrid sensing.

Sludge Blanket Interface

- Continuous sludge blanket level
- Easy to install
- Maintenance-free
- Replaces unreliable manual techniques
- Detect sludge in clarifiers, primary, secondary, & tertiary settlement tanks
- For use with stationary or traveling bridges
- Used for compliance & process efficiency

Sludge Finder 2 & Viper Transducer

Sludge Blanket Level Control



APPLICATIONS

- Primary & secondary settlement tanks
- DAF thickeners
- Gravity thickeners
- Stationary & traveling bridges

This system offers high-reliability long-term performance with its high-frequency operation. It features a self-cleaning transducer, eliminating the need for regular inspection. Setup is straightforward with a drop-down menu on a large, clear display. A high-level FLOC alarm is available, and an optional ultrasonic transducer can be added.

Process Protection Solutions

- Save cost: through shutdown prevention & equipment protection
- Solid & liquid flow indication
- Non-invasive
- Maintenance-free
- Trend analysis

DFS 5.1

Flow Control and Pipe Flow Management



APPLICATIONS

- Sewage
- Sludge – RAS & WAS
- Slurries
- Oil production

An inexpensive, non-invasive flow switch designed for difficult fluids like sewage, sludge, and slurries helps protect expensive equipment from damage. The clamp-on ultrasonic sensor installs in minutes without shutting down the system and requires no maintenance. LED lights provide flow indication and relay switching capability.

PulsarGuard 2010

Acoustic sensor range



APPLICATIONS

- Burst filter bag detection
- Blockage detection
- Pump cavitation
- Valve leakage detection
- Bearing failures
- Bridging or rat-holing in silos
- Pig Detection

PulsarGuard's non-invasive design ensures no service interruption and is highly resistant to interference from machinery or process noise. Its compact design fits in tight spaces, with no moving parts and vibration resistance for reliability in low or high temperatures. Hazardous environment options are also available.

Telemetry

- Monitoring of remote equipment
- Covers geographical regions
- Pair with your cloud or custom cloud
- Wireless telemetry
- Quick and easy to install and set-up
- View data instantaneously

SignalFire RANGER™

Wireless Telemetry



APPLICATIONS

- Aeration basins/tank
- Digester and Bio gas
- Cogeneration systems
- Methane makeup for cogen systems
- Bearing failures
- Bridging or rat-holing in silos
- Pig Detection

Access measurement data remotely via LTE CAT M1/NB-IoT on any device, with automatic cloud storage and alerts for out-of-range values. The battery-operated RANGER powers 2-wire sensors and can be paired with a 12 VDC or solar-powered meter. Optional Modbus RTU or HART outputs provide added flexibility.

Thermal Mass Flow Measurement

- Advanced gas flow measurement for the water and wastewater industry
- Measures gas flow directly – no need for multiple measurements and a flow computer
- Industry leading turndown
- In-situ calibration validation
- Global hazardous location approvals

MDot™

Thermal Mass Flow Meter



APPLICATIONS

- Aeration basins/tank
- Digester and Biogas
- Cogeneration systems
- Methane makeup for cogen systems

Thermal mass technology measures gas flow directly, available in insertion or inline models with up to 1000:1 turndown. Inline meters have built-in flow conditioners, and MDot GasSelect™ allows gas composition changes without recalibration. Standard 4-20mA and pulse outputs, with optional Modbus RTU or HART.



For more information, please visit our website:
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