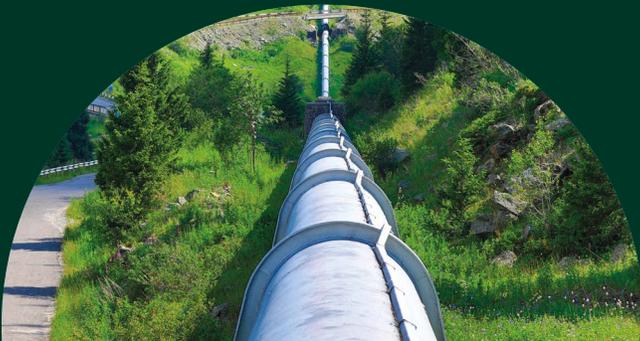


# Inline Flow Meters

## Product Guide

Accurate, dependable and reliable flow measurement solutions for permanent installations.



# Achieve your environmental and performance goals

Designed for permanent installations, Panametrics' inline flow meters provide accurate measurements across a wide range of process fluids.

With embedded diagnostics and digital connectivity, our flow meters deliver real-time insights directly to your plant, allowing process optimization.

Built with high-quality materials, Panametrics' inline flow meters withstand extreme conditions, including high pressure, high temperature, and even premium alloy applications



Scan this code for more information

# Industry applications

Panametrics' process measurement solutions cover a wide range of industries and applications.

								
PanaFlow FLI		✓			✓			
DigitalFlow GM868		✓	✓	✓				
DigitalFlow XGM868i		✓	✓	✓				
DigitalFlow GS868		✓	✓			✓		
DigitalFlow XGS868i		✓	✓			✓		
PanaFlow ZxG		✓	✓	✓			✓	
PanaFlow Z3	✓	✓	✓	✓				✓
PanaFlow XMT1000 SIL	✓	✓						
PanaFlow HT SIL	✓	✓						
PanaFlow LZ	✓	✓	✓					✓

### Key to industries

 Power Plant

 Oil & Gas

 Steel Plant

 Hydrogen

 Chemical

 Geothermal

 Biogas/Biofuels

 Water & Wastewater

# PanaFlow FLI

## Ultrasonic flowmeter for gas

PanaFlow FLI is a robust and reliable ultrasonic flow measurement system for monitoring wide ranging gas flow in challenging conditions. PanaFlow FLI is available in either a flowcell (spoolpiece) or nozzle only design providing flexibility to your existing or new flow requirements.

### APPLICATIONS



#### Oil & Gas

Flare gas  
 Fuel gas  
 Vent gas  
 Waste gas  
 Shale gas  
 Natural gas  
 Biogas  
 Coal-seam gas  
 Steam



#### Chemical

Flare gas



### FEATURES

- Trusted ultrasonic technology with no drifting measurements or need for periodic calibration requirements
- No restriction in the pipe to generate a pressure loss
- Wide rangeability from 0-100m/s (328 ft/s) monitoring during all process scenarios
- Robust and field proven legacy Panametrics titanium gas transducers; other materials available based on stream composition
- New compact insertion mechanism for 24hr/7day continuous operation and access to transducer
- Advanced diagnostics to understand and track the health and stability of the process

# DigitalFlow GM868 and XGM868i

## Gas flowmeter

The flow meter includes wide-range transducers to measure any gas. This accurate ultrasonic meter ensures reliable gas flow that requires little or no maintenance

### APPLICATIONS



#### Oil & Gas

- Fuel gas
- Associated gas
- Dehydration
- Landfill gas
- Boil off gas
- Wet gas
- Acid/sour gas
- Recycle gas
- Hydrogen gas
- Quench gas
- Gas after separation
- Allocation metering
- Flare gas
- Air
- Gas lift
- Gas injection
- Gas compression
- Natural gas
- Acid/sour gas
- Hydrogen gas
- Gas compression



#### Steel Plant

- Coke gas and blast furnace gas
- Feed gas
- Stack gas
- Air
- Nitrogen



#### Hydrogen

- Pure and blended hydrogen
- Power gen for air, nitrogen



### FEATURES

- Full-featured flowmeter package using a transmitter type electronics
- Transducer removable under line pressure (depending on meter set-up)
- No moving parts
- No pressure drop
- Wide rangeability with up to 1500 to 1 turndown ratio (application and transducer dependent)
- Non-obstructive flow measurement
- Tolerance to dirty streams
- Low maintenance
- Suitable for high temperatures
- Two-path measurement available for better accuracy
- Binary gas mixture content determination (optional)
- Accuracy  $\pm 1\%$  of reading  $\pm 2\%$  of reading

# DigitalFlow GS868 and XGS868i

## Steam ultrasonic flowmeter

Both the GS868 and XGS868i are designed to measure the mass flow rate of saturated or superheated steam. It offers a unique combination of no pressure drop, wide rangeability, ease of installation, low maintenance and high accuracy in a full-feature flowmeter package. The XGS868i offers a rugged transducer, weatherproofing, and is approved for use in hazardous environments. It offers the same performances as the GS868 in a more cost-effective set up with only fewer I/Os possibilities.

### APPLICATIONS



#### Oil & Gas

Saturated steam and superheated steam  
Process steam



#### Steel Plant

Saturated steam



#### Geothermal

Steam flow  
Power for saturated  
Superheated steam measurement



### FEATURES

- Full-featured flowmeter package using a transmitter type electronics
- Built-in steam tables for mass flow calculation
- Transducer removable under line pressure (depending on meter set-up)
- No moving parts
- No pressure drop
- Wide rangeability with up to 1500 to 1 turndown ratio (application and transducer dependent)
- Non-obstructive flow measurement
- Tolerance to dirty streams
- Low maintenance
- Suitable for high temperatures
- Two-path measurement available for better accuracy
- Accuracy  $\pm 1\%$  of reading  $\pm 2\%$  of reading

# PanaFlow Z1G and PanaFlow Z2G

## Gas ultrasonic flow meter systems

High-performance, affordable solutions for a variety of gas flow applications. The PanaFlow Z1G provides a one-path configuration gas flow meter, while the PanaFlow Z2G is a two-path gas flow meter. Both offer a broad range that is accurate and reliable, and available in robust, sleek designs.

### APPLICATIONS



#### Oil & Gas

- Fuel gas
- Flare gas
- Associated gas
- Gas after separation
- Dehydration
- Landfill gas
- Coal seam gas
- Wet gas
- Gas compression
- Air
- Nitrogen
- Recycle gas
- Quench gas
- Hydrogen blending



#### Steel Plant

- Feed gas
- Air
- Oxygen
- Natural gas



#### Hydrogen

- Hydrogen blending



#### Biogas/Biofuels

- Biogas with methane content determination



### FEATURES

- No drifting, no periodic calibration required
- No pressure drop
- No restriction in the pipe
- No filters or strainers
- No moving parts
- Explosion-proof transducer design
- Bi-directional measurement
- Binary gas mixture content determination (optional)
- Accuracy  $\pm 1\%$  of reading  $\pm 1.5\%$  of reading

# PanaFlow Z3

## Three-path liquid ultrasonic flow meter

Designed specifically for dependable, accurate, and repeatable flow measurement of process liquids with a very tight accuracy down to +/- 0.25% of reading under reference conditions.

### APPLICATIONS



#### Power Plant

Water/glycol



#### Oil & Gas

Condensate (HC)  
 Produced water  
 Water injection  
 Allocation metering  
 Leak detection  
 Oil  
 Blending lines  
 Water after separation  
 Water  
 LPG and other light HC  
 Fuel oil  
 Water and cooling water



#### Steel Plant

Water  
 Tar



#### Hydrogen

Demineralized water



#### Water & Wastewater

Potable water  
 Raw water  
 Waste water  
 Chemicals



### FEATURES

- No drifting, no periodic calibration required
- No pressure drop
- No restriction in the pipe
- No filters or strainers
- Bi-directional measurement
- No moving parts
- Field replaceable transducers
- All cast design
- Explosion-proof transducer design
- All modern communication protocols (HART, Modbus, FF FISCO)
- Accuracy  $\pm 0.25\%$  of reading
- SIL rated (optional)

# PanaFlow XMT1000 SIL

## Ultrasonic flow transmitter for liquids

Certified for hazardous installations, such as petrochemical and chemical processing, and supports up to three paths for more accurate measurement.

### APPLICATIONS



#### Power Plant

Boiler feed water  
Water  
Brine



#### Oil & Gas

Oil after separation  
Water after separation  
Condensate (HC)  
Produced water  
Water injection  
Sea water intake  
Oil  
LNG  
LPG and other light HC  
Heavy residue  
Liquid sulfur  
Fuel oil  
Water  
Leak detection  
Allocation metering  
Water and cooling water  
Quench oil  
Blending lines



### FEATURES

- One, two or three-channel operation
- No drifting, no periodic calibration required
- No pressure drop
- No restriction in the pipe
- No filters or strainers
- Bi-directional measurement
- No moving parts
- Field replaceable transducers
- All cast design
- Explosion-proof transducer design
- All modern communication protocols (HART, Modbus, FF FISCO)
- Suitability for a wide range of pipe sizes and materials.
- Accuracy  $\pm 0.3\%$  of reading
- SIL certification

# PanaFlow HT SIL

## Reliable extreme temperature liquid ultrasonic flow meter

Ideal for harsh applications, such as delayed coker units, fluidic catalytic cracking, vacuum distillation, crackers, hydrotreaters, visbreakers, crude oil, and LNG. It is rated for hazardous areas and extreme processes with temperatures from -200°C to 600°C.

### APPLICATIONS



#### Power Plant

Boiler feed water



#### Oil & Gas

Heavy residue  
Liquid sulfur  
Slurry oil  
Hydrocarbon liquid  
Chemicals  
Safety critical liquid flow



### FEATURES

- One or two-channel, in single double, triple or quadruple set up
- No drifting, no periodic calibration required
- No pressure drop
- No restriction in the pipe
- No filters or strainers
- Bi-directional measurement
- No moving parts
- Field replaceable transducers
- Explosion-proof transducer design
- All modern communication protocols (HART, Modbus, FF FISCO)
- Suitability for a wide range of pipe sizes and materials.
- Accuracy  $\pm 0.5\%$  of reading
- Flow measurement in extremely high and low temperature conditions from 73K to 873K applications
- SIL certification

# PanaFlow LZ

## Ultrasonic flow meter system for liquid applications

Offered as a one- or two-path wetted, ultrasonic flow meter that brings all of the advantages of ultrasonic technology at a very affordable value.

### APPLICATIONS



#### Power Plant

Boiler feed water  
Water/glycol (facility mgt/  
campus energy)



#### Oil & Gas

Condensate (HC)  
Produced water  
Water injection  
Leak detection  
Allocation metering  
Oil  
LPG and other light HC  
Fuel oil  
Blending Lines  
Oil after separation  
Water after separation  
Water and cooling water  
Quench oil



#### Steel Plant

Tar  
Water



#### Water & Wastewater

Potable water  
Raw water  
Waste water  
Chemicals



### FEATURES

- One or two-channel
- No drifting, no periodic calibration required
- No pressure drop
- No restriction in the pipe
- No filters or strainers
- Bi-directional measurement
- No moving parts
- Field replaceable transducers
- Explosion-proof transducer design
- All modern communication protocols (HART, Modbus, FF FISCO)
- Suitability for a wide range of pipe sizes and materials
- Accuracy  $\pm 0.5\%$  of reading
- SIL certification (option)
- Flow measurement in extremely high and low temperature conditions from 73K to 873K applications

Panametrix, a Baker Hughes business, provides solutions in the toughest applications and environments for moisture, oxygen, liquid and gas flow measurement.

Experts in flare management, Panametrix technology also reduces flare emissions and optimizes performance.

With a reach that extends across the globe, Panametrix' critical measurement solutions and flare emissions management are enabling customers to drive efficiency and achieve carbon reduction targets across critical industries including: Oil & Gas; Energy; Healthcare; Water and Wastewater; Chemical Processing; Food & Beverage and many others.

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