

Ultrasonic Flow Meters



Large turndown ratio, no pressure drop, no moving parts, no drift

Sentinel: Custody Transfer, Allocation, Leak Detection | Accuracy 0.1%

Critical liquid measurement applications.



Sentinel LNG Liquid Flow Meter

Cryogenic or high temperature
Custom metallurgy available



Sentinel LCT4

4 path meter for liquid custody transfer
or leak detection



Sentinel LCT8

8 path meter for liquid custody transfer
or leak detection

PanaFlow: Process Flow Meters | Accuracy 0.5%

Cost-effective ultrasonic flow measurement. Ideal for process applications.



PanaFlow Z1G/Z2G

1 & 2 path configurations
High performance gas meter



PanaFlow Z3

3 path liquid flow
measurement



PanaFlow LZ

One or two-path liquid
wetted system



PanaFlow HT

Large temp range
SIL-rated for hazardous
areas
Ideal for resid applications



PanaFlow FLI

1 & 2 path configurations
Low pressure retraction and
insertion
High performance and
corrosive gas tolerant
transducers

Clamp-on: Accuracy 1.0%

Cost-effective ultrasonic flow measurement. Ideal for process applications. No risk of leaks.



TransPort PT878GC

Portable ultrasonic
gas flowmeter
Rugged industrial design



TransPort PT900

Easy to use, portable liquid
flowmeter
Display data & program
from a tablet or smartphone



AquaTrans AT600

One path liquid meter
Works with wide range of
pipe materials
Easy installation



DigitalFlow GC868

Permanent Gas Clamp-On
Suitable for a wide range of
temperatures & pressures
Two-channel/two-path
version available



PanaFlow LC

Permanent Hazardous Area
liquid clamp-on
Improved accuracy
& repeatability

Flare Solutions:

The industry's first and leading monitoring solution.



PanaFlare XGF1100

Worldwide leader in ultrasonic
flare gas



flare.iQ

Advanced flare control platform

Steam



DigitalFlow GS868

Mass flow rate for your complete
steam flow range.

PanaConnect



Live remote troubleshooting
Remote meter verification
Eliminates travel cost

Analyzers

Precise gas detection, wide measurement range, fast response, robust design

Oxygen | Gas Analysis: Process Analyzers



oxy.IQ

Galvanic Fuel Cell Technology
ppm or % Oxygen Analysis
Hydrocarbon Process Design



SIL2
IEC 61508
certified

XMO2pro

Paramagnetic Technology
Process Oxygen Measurements
Safety Integrity Level (SIL) certified
No moving parts, explosion proof



SIL2
IEC 61508
certified

XMTcpro

Binary Gas Thermal Conductivity
Low Maintenance
Explosion Proof
High level of reliability with SIL 2 by design

Moisture Analyzers (Hygrometers)



Aluminum Oxide: Analyzers & Transmitters

Full line of multi-functional analyzers, transmitters, and portable packages
Moisture in gases and organic liquids



TDLAS: Aurora

Fastest responding, high accuracy moisture measurement
Wide-measurement range with a 2 ppmv lower detection limit Fixed, rack mount & portable designs

Chilled Mirror

Primary standard
Packages for laboratory and industrial applications
Dewpoint ranges from -80°C to +75°C (-112°F to +167°F)



Industrial Relative Humidity

Polymer Capacitive Technology
Rugged Industrial Design
In-situ and Ex-situ Humidity Measurements
Temperatures up to 150°C (302°F)



HygroPro^{II}

Intrinsically Safe
Ambient to ppb-level Moisture Measurement
Built-in temperature sensor for temperature compensation



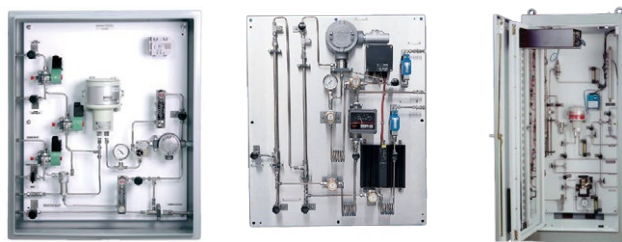
HygroPro XP

Explosion Proof
Ambient to ppb-level Moisture Measurement
Optional Pressure Sensor

Moisture Sensor Exchange Program

- Calibration service agreements for aluminum oxide moisture probes
- Ensures minimal interruption to critical process measurements
- Exchanges a probe at end of calibration cycle with a newly calibrated probe

Sample Systems



Standard and custom sample system designs
Over 50 years of Panametrics Application Engineering Expertise

Services

- Regulatory meter evaluations and verifications
- Preventative maintenance
- Flow measurement surveys
- CFD to overcome straight run challenges
- Hands on training
- Corrective maintenance
- AlOx Sensor Calibration
- In House Repair



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