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## 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  
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 and  
program from a  
tablet or smart phone



#### 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 and  
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.



#### DigitalFlow GF868

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



#### PanaConnect

Live remote troubleshooting  
Remote meter verification  
Eliminates travel cost



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## Analyzers

### Oxygen | Gas Analysis: Process Analyzers



**oxy.iQ**  
Galvanic Fuel Cell Technology  
ppm or % Oxygen Analysis  
Hydrocarbon Process Design



**SIL2**  
IEC 61508 certified

**XMO2pro**  
No moving parts and consumables  
Integrated display, intuitive GUI MODBUS  
digital communication Global certifications/  
hazardous area classification



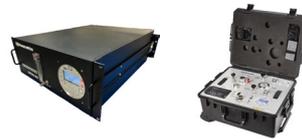
**SIL2**  
IEC 61509 certified

**XOM2pro and XMTCpro**  
No moving parts and consumables  
Integrated display, intuitive GUI MODBUS  
digital communication Global certifications/  
hazardous area classification

### Moisture Analyzer (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  
and portable designs

#### 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



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



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



**HygroPro<sup>II</sup>**  
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

### 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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