



TURBINES INCORPORATED PRODUCTS OVERVIEW

HIGH ACCURACY TURBINE FLOW METERS



- >> Vertical or horizontal installation
- >> Low Pressure Drop
- >> NIST Traceable Calibration
- >> CRN Certified

Sizes

1/2 to 12"

Flowrates

1 to 12,000 gpm

Temperature Range

-450°F to +450°F (+850°F with special coil)

Accuracy

Linearity: ± 0.5% ±0.25 available on request Repeatability: ±0.1%

Standard Endfittings

AN Flare, NPT, Flanged, Sanitary (consult factory for other options)

Standard Material

316 Stainless steel 17-4PH, 440C Stainless steel or Duplex

HIGH ACCURACY WAFER



- >> Vertical or horizontal installation
- >> Low Pressure Drop
- >> NIST Traceable Calibration
- >> CRN Certified

Sizes

1 to 4"

Flowrates

4 to 1,250gpm

Temperature Range

-450°F to +450°F (+850°F with special coil)

Accuracy

Linearity: ± 0.5% ±0.25 available on request Repeatability: ±0.1%

Standard Endfittings

Fits between two existing flanges, Installation kits available

Standard Material

316 Stainless steel 17-4PH, 440C Stainless steel or Duplex



CRYOGENIC FLOW METERS



- >> Vertical or horizontal installation
- >> Low Pressure Drop
- >> NIST Traceable Calibration
- >> CRN Certified
- NTEP Certified, NMi Netherlands Certified OIML R117, R81, MID

Sizes

1/2 to 12"

Flowrates

1 to 12,000gpm

Temperature Range

-450°F to +450°F

Accuracy

Linearity: ± 0.5% ±0.25 available on request Repeatability: ±0.1%

Standard Endfittings

AN Flare, NPT, Flanged, Wafer, Sanitary (consult factory for other options)

Standard Material

316 Stainless steel, Nickel 200, 17-4PH, 440C Stainless steel





INTEGRATED ELECTRONICS FLOW METERS



- >> Vertical or horizontal installation
- » NIST Traceable Calibration
- >> Low Profile compact design

Sizes

7/8 to 1"
Consult factory for other sizes

Temperature Range

-22°F to 150°F

Standard Endfittings

FNPT

Flowrates

7/8" = 3 to 30gpm 1" = 5 to 50gpm

Accuracy

Linearity: ± 1.0% Repeatability: ± 0.1%

Standard Materials

316 Stainless steel, 416 Stainless steel, CD4MCu, Tungsten Carbide





LOW FLOW SERIES FLOW METERS



- >> Vertical or horizontal installation
- >> NIST Traceable Calibration
- Encapsulated Version Available for High Pressure, Low Temperature
- >> Liquid and Gas Measurement

Orifice Sizes

0.020 to 0.175"

Flowrates

.007 to 3gpm

Temperature Range

-450°F to 450°F (+525°F with special coil)

Repeatability

± 0.25%

Standard Endfittings

NPT, AN Flare

Standard Material

316 Stainless steel, 17–4PH, 440C Stainless steel

GAS FLOW METERS



- >> Vertical or horizontal installation
- >> Low Pressure Drop
- » NIST Traceable Calibration
- >> CRN Certified

Sizes

1 to 12"

Temperature Range

-450°F to 450°F

Standard Endfittings

Grooved, NPT, Flanged, Wafer (Constult factory for other options)

options

Flowrates

0.5 to 12,000 ACFM

Accuracy

Linearity: ± 1.0% Repeatability: ± 0.1%

Standard Materials

316 Stainless steel, 17-4PH, 440C Stainless steel



SANITARY SERIES FLOW METERS



- >> CIP/SIP
- 3A Certified
- >> Vertical or horizontal installation
- >> NIST Traceable Calibration
- >> CRN Certified

Sizes

1/2 to 3"

Flowrates

1.25 to 650gpm

Temperature Range

-100°F to 450°F

Accuracy

Linearity: ± 0.5% Repeatability: ± 0.1%

Standard Endfittings

Sanitary

Standard Material

316 Stainless steel 17-4 PH Stainlesss steel, Rulon, Carbon Composite





QUICK CHANGE METER



- Field servicable internals without removing meter from the line
- >> Vertical or horizontal installation
- » NIST Traceable Calibration
- >> Low Maintenance Cost

Standard Sizes

1 or 2"

Flowrates

5-225gpm

Temperature Range

-40°F to 300°F

Accuracy

Linearity: ± 1.5%

Repeatability: ± 0.15%

Standard Endfittings

NPT, Grooved, Flanged,

Standard Material

316 Stainless steel, 17-4PH, Duplex Stainless steel, 440C Stainless steel, Ceramic, Tungsten carbide





TM SERIES LIQUID FLOW METER



- >> Vertical or horizontal installation
- >> CRN Certified
- >>> Economical solution with quick delivery
- >> NIST Traceable Calibration

Size

3/8 to 10"

Flowrates

From 0.3-5,500gpm (10-190,000 bpd)

Temperature Range

-100° to 250°F (850°F with special coil)

Accuracy

Linearity: ± 1.0% Repeatability: ± 0.1%

Standard Connections

Flanged, Grooved, NPT (Constult factory for other options)

Standard Materials

316 Stainless steel, CDMCu, 416 Stainless steel, Tungsten Carbide

WM SERIES LIQUID FLOW METER



- >> Vertical or horizontal installation
- >> Economical and Space Efficient
- >> CRN Certified
- >> NIST Traceable Calibration

Sizes

3/8 to 10"

Temperature Range

-100° to 250°F (850°F with special coil)

Flowrates

0.3-5,500gpm (10-190,000 bpd)

Accuracy

Linearity: ± 1%
Repeatability: ± 0.1%

Standard Endfittings

Fits between two flanges, Installation kits available

Standard Material

316 Stainless steel, CDMCu, 416 Stainless steel, Tungsten Carbide



HIGH PRESSURE FLOW METER



- >> Pressure up to 15,000 psi
- >> NIST Traceable Calibration
- >> Vertical or horizontal installation
- >> CRN Certified

Sizes

2 or 3"

Flowrates

15-600gpm

Temperature Range

-100°F to 250°F

Accuracy

Linearity: ± 1%

Repeatability: ±0.1%

Standard Endfittings

1502 Hammer Union end connection

Standard Material

A286 Stainless steel, 316 Stainless steel, CD4MCu, Tungsten Carbide

FLOW MONITORS



- >> Intrinsically Safe Available
- Three micro-switch keys with UV resistant polyester key pad
- >> Suitable for direct or remote mount
- >>> Temperature & Pressure Compensation

 Available

Power

6 – 30V DC or 4–20mA Loop-powered, Lithium Battery Pack

Temperature Rating

-40°F to 158°F

Signal Input

0 - 7000 Hz

Physical Dimemsions

5.1" x 4.7" x 2.9"

Outputs

Pulse or 4-20mA output

Display Size

3.5" x 1.6"

Communication

Modbus RS485, Free configuration software



FLOW MONITORS



- >> Temperature Compensation Available
- >> 2-40 Point Linearization
- >> Independent Rate Indicator and Totalizer
- >> Built-in test system for diagnostics
- >>> Backlit Display
- >> Intrinsically Safe Version Available
- >>> Operating Alarms

Power

7.5-36V DC or 4-20mA loop-powered, Lithium Battery Pack, Polarity protected

Enclosure

NEMA 4X or IP66,

Outputs

Pulse or 4-20 mA

Temperature Rating

Operating: -22°F to 150°F

Signal Input

0-6000Hz



- >> Explosion Proof
- Temperature & Pressure Compensation
 Available
- >> Through Glass Programmable
- Backlit Display
- >> Direct or Remote Mounting

Power

9 – 27V DC or 4–20mA Loop-powered, Lithium Battery Pack

Temperature Rating

-40°F to 158°F

Signal Input

0 - 7000 Hz

Physical Dimemsions

5.1" x 4.7" x 2.9"

0.1 X 1.7 X 2.0

Pulse or 4-20mA

Outputs

Display Size

3.5" x 1.6"

Communication

Modbus RS485,

Free configuration software



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CRYOGENIC DELIVERY SYSTEMS



- 3 4 softkeys and embedded resistive touchscreen
- >> Multiple tickets with customization options
- >> NTEP Certified, IP67
- >> Automotic maintenance reminders
- >>> Real-Time detail diagnostics & alarm screens
- >> No heater or battery required

Control & Communication

Pump Control (1) Form C 5A relay,
Alarm (1) Form C 5A relay,
Spare Form C 5A relay,
RS232 & Bluetooth communications,
Real-Time data streaming,
USB front panel port

Sensor Inputs

100, 1K, 10K RTD, Silicon Diode and 4-20mA

Physical Dimensions

10.5" x 8.9" x 2.75"

Operating Temperature

-40°F to 125°F

Display

800 X 480 full color graphic

Signal Input

Frequency Range: 0 - 2500HZ, Sensitivity: 15mv RMS @ 10HZ (min) Impedance: Approx. 14 Ohms Noise immunity: FCO @ 2.5KHz Optional dual pickup

Power

9 to 26 VDC Polarity insensitive



- >>> Real-Time calculations & graphics
- >>> Multiple tickets with customization options
- >> Simple menu driven programming
- >> 4 softkeys and standard keypad
- » NTEP Certified, IP67, NMi Netherlands Certified OIML R117, R81, MID

Control & Communication

Pump Control (1) Form C 2A relay Alarm (1) Form C 2A relay RS232 & Bluetooth

Physical Dimensions

10.5" x 8.9" x 2.75"

Signal Input

Frequency range: 0-2500Hz
Sensitivity: 15mv RMS @ 10Hz (min);
50mv RMS @ 500Hz (min); 400mv
RMS @ 2.5KHz (min)
Optional dual pickup

Sensor Inputs

100, 1K, 10K RTD

Display

Backlit 240x128 graphic display

Operating Temperature

-13°F to 125°F

Power

9-26 VDC withself-resetting fuse. Polarity insensitive, NiMH Battery



INDUSTRIAL SERIES SIGNAL CONDITIONERS



- >> Output Proportional to Flow
- >> Short Circuit Protection
- >> Exposion Proof Enclosure
- >> Sensitivity Field Adjustable
- >> Economical

Analog Signal Conditioners

Input voltage: 7 VDC - 38 VDC Outputs: 0-10 V or 0-5 V, 4-20 mA

Frequency: 0-10 kHz

Sensitivity: 5mV or 20mV minimum Operating Temperature: -40°F to 185°F

Installation: Meter mount

Digital Signal Conditioners

Input voltage: 5 VDC - 30 VDC

Output Voltage: 5 V, 10 V, Voltage following

Frequency: 0-10 KHz

Sensitivity: 5mV or 20mV minimum Operating Temperature: -40°F to 185°F

Installation: Meter mount







CONTACT

Thank you for your interest in Turbines Incorporated.

Please visit our website and fill out the contact us form as accurately as possible to be connected to the right department for follow-up. For more immediate questions or custom engineered solutions call us using the phone number listing below.

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