



## IT400: RATE INDICATOR AND TOTALIZER



- Temperature Compensated
- Modulated Carrier Compatible
- 20 point Linearization
- Rate Indicator and / or Totalizer
- Data Logging via Smartcard
- Increased Ease of Programmability
- Backlighting
- Features Dependant upon User Request

## CRYOGENIC DELIVERY SYSTEM

- User Friendly Menu Driven Programming, NO SCROLLING
- 10 Point Flowmeter Linearization
- Quick, Simple Versatile Mounting and Installation
- Programmable Maintenance Reminders Based on Actual Turbine Service

### Model T675: Transport Measurement System

- Temperature Compensation supports 8 Individual Products
- Pump Control Output with Programmable Delay Interval
- Infrared and RS232 Communications Ports



## INDUSTRIAL SERIES AMPLIFIERS TRANSMITTERS

- Output Proportional to Flow
- Short Circuit Protection
- Explosion Proof Enclosure
- Meter Mounted
- Sensitivity Field Adjustable



### MODEL SP711-3: 3-wire Analog Transmitter

- Outputs include 0-5 or 0-10 VDC, Switch Selectable
- Linearly converts a frequency input to an equivalent voltage output
- 12-28 VDC

### MODEL SP712-2: Loop Powered 4-20mA Transmitter

- 2-wire 4-20mA Loop Powered Output
- Linearly converts a frequency input to an equivalent 4-20mA current output

### MODEL SP714: Pulse Amplifier

- 6-28 VDC
- 5mA @ 24 VDC
- Amplifies and conditions low amplitude signals

### MODEL SP717: Modulated Carrier Amplifier

- 6-28 VDC
- 30mA @ 24 VDC
- Produces a Carrier Frequency in Conjunction with an RF Pickup Coil

### MODEL SP718: Modulated Carrier Analog Transmitters for Current or Voltage

- 110 VAC, 60Hz, or 12-16.5 VDC Input
- Voltage Linearly converts the detected carrier frequency modulation rate to an equivalent Analog Output

### MODEL SP720-2: Loop Powered Modulated Carrier 4-20mA Transmitter

- Combines the advantages of the modulated carrier principle with the convenience and accuracy of a loop powered 4-20mA transmitter

## Services

- Field Service
- Calibration
- Repair
- Customer Service
- Training and Education
- Technical Support



*Sponsler offers on-site field service for our Flow measurement and delivery systems.*

## OUR COMMITMENT TO QUALITY

At Sponsler, Inc., we are committed to designing, manufacturing, and calibrating the highest quality flow measuring products. All associates share this commitment to continuous improvement, customer satisfaction, and quality.

Manufacturing operations at Sponsler, Inc. include precision machining and electronics manufacturing combined with rigid, comprehensive calibration and testing procedures.

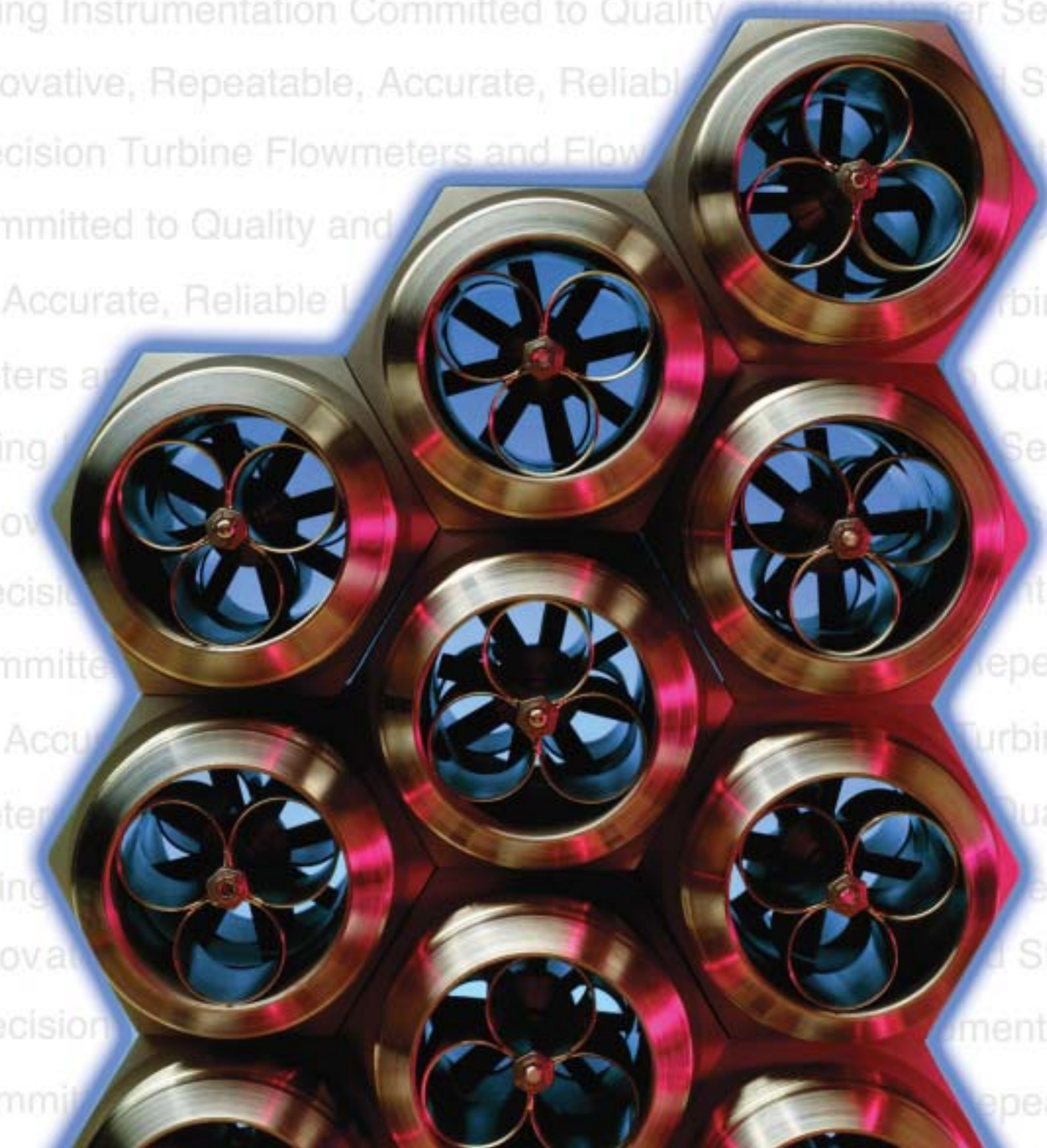
These operations ensure that every Sponsler product conforms to the highest quality standards and applicable regulatory requirements. With commitment to competitive pricing, devotion to quality, superior customer service, and a reliable delivery of products, Sponsler, Inc. strives to combine technologically, innovative products with the highest rate of reliability.



# SPONSLER, INC.

## Flow Measuring Devices and Controls

### A Unit of IDEX Corporation



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For 30 years SPONSLER has been providing accurate, reliable flow measuring systems. We believe that quality insures long term success.



## PRECISION TURBINE FLOWMETERS

- High Resolution**
- Simple Installation**
- Versatile Mounting**
- Low Pressure Drop**
- Variety of Endfitting Choices**
- Sizes: 1/4" to 12" (.0635 cm to 30.48 cm)  
*For larger sizes consult factory.*
- Flowrates: .25 to 12,000 US GPM  
.35 to 12,000 ACFM
- Temperature Range: -430° to 450° F;  
+1000°F optional  
(-256.7°C to 232.2°C; 537.8°C optional)
- Accuracy: ± .5% Linear
- Repeatability: ± .02%
- Standard Endfittings:  
AN Flare, NPT, Flanged
- Standard Material:  
300 Series Stainless Steel



## WAFER SERIES FLOWMETERS

- Standard Endfittings:  
Fits between flanges**
- Standard Material:  
300 Series Stainless Steel**
- High Accuracy**
- Attitude Insensitive**
- AC Sinewave Signal**
- Cost and Space Efficient**
- Sizes: 3/4" to 6" (1.9 cm to 15.2 cm)
- Flowrates: 2.5 to 2900 US GPM
- Temperature Range:  
-430° to 450° F; +1000°F optional  
(-256.7°C to 232.2°C; 537.8°C optional)
- Accuracy: ± .5% Linear
- Repeatability: ± .1%



## SANITARY SERIES FLOWMETERS

- Clean In Place with Low Pressure Steam**
- Flexible Applications**
- 3A Approved and Standard Sanitary Flowmeters Available**
- High Accuracy**
- 3A Sanitary Flowmeters Built to Wisconsin Dairy Standards**
- Vertical or Horizontal Installation**
- Sizes: 1/4" to 3" (0.635 cm to 7.62 cm)
- 3/4" through 4" available 3A approved  
(1.9 cm to 10.2 cm available in 3A approved)
- Flowrates: .25 to 650 US GPM  
(946.4 – 2460518 cc/min)
- Temperature Range: -100 to 450°F  
(-37.8°C to 232.2°C)
- Accuracy: ± .5% Linear
- Repeatability: ± .1%
- Standard Endfittings: Tri-clover
- Standard Material: 300 Series Stainless Steel



## LO-FLO SERIES FLOWMETERS

- Low Maintenance Cost**
- Liquid & Gas Measurement**
- 12 Overlapping Flow Ranges**
- AC Sine Wave Signal Output**
- Encapsulation option for High Pressure, High or Low Temperature, or extreme Corrosive environment**
- Orifice Sizes: .020 to .175
- Flowrates: .002–3 US GPM  
(7.6 – 11356.24 cc/min)  
in 12 overlapping ranges
- Temperature Range:  
-430° to 450° F; +1000°F optional  
(-256.7°C to 232.2°C; 537.8°C optional)
- Repeatability: ± .25% of reading
- Standard Endfittings:  
AN Flare, NPT, Flanged
  - Standard Material:  
300 Series Stainless Steel



## CORROSIVE SERIES FLOWMETERS

- Available in a wide variety of corrosion resistant materials allowing for measurement of hard to handle liquids such as Chlorine, Hydrochloric acid, Muriatic acid, and Sulfuric acid.**
- Sizes: 1/4" to 4" (946.4 cm to 15141.7 cm)  
For larger sizes consult factory.
- Flowrates: .25 to 1,250 US GPM
- Temperature Range: -100° to 280°F  
(-37.8°C to 137.8°C)
- Accuracy: ± .5% Linear
- Repeatability: ± .25%
- Standard Endfittings: Flanged to ANSI B16.5
- Standard Materials: CPVC, Kynar, Teflon



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## INSERTION SERIES FLOWMETERS

The Sponsler Insertion Flowmeter is specially designed for retractable operation to meet varying depth applications. Sponsler Insertion flowmeters are manufactured with a stem length of 12 to 36 inches to allow for installation in pipelines from 3 to 72 inches.

- Sizes: 1 1/2" (3.81cm) , fits inside 2" (5.08 cm) NPT Riser
- Flowrates:  
Liquid 2-40 ft/sec  
(56633.7 – 1132674 cm/sec.)  
Gas 20-200 ft/sec  
(566336.9 – 5663369 cm/sec.)
- Temperature Range: -100° to 350°F  
(-37.8°C to 176.7°C)
- Accuracy: ± 1% Linear
- Repeatability:  
± .25% over nominal rated flow range
- Max. Pressure: 150 psig for liquid (100psig for gas)
- Standard Endfittings:  
2" FNPT, 3" 150# Flange
- Standard Material:  
300 Series Stainless Steel



## FLOW COMPUTERS FOR LIQUID AND GAS APPLICATIONS



- Model SP3850**  
Versatile Flow Computer for Liquids and Gases
- Dual Stage Batch Totalizer
  - Hi / Low Limit
  - Rate Indication
  - Linearization
  - Form "C" contact closures
  - Compensation—Temperature, Pressure, Volume, Corrected Volume, and Mass



- SP 4000**  
Multi-function Flow Computer for Liquids and Gases
- Supports Liquid, Gas, Steam, and heat flow equations
  - Compensation for Temperature, Density, and Pressure
  - Computations for Volume, Corrected Volume, and Mass
  - Linearization: 16 point, UVC table, and Dynamic Compensation

**Panel Mount, High Impact Plastic Enclosure**

**EEPROM Stores all Programs and Counts Data for Minimum of 10 Years if Power is lost**

**Signal Input 3-30VDC Square wave**

**Outputs include 4-20mA, Scaled Pulse and Optional RS232**

**Optional NEMA4 and Explosion Proof enclosures available**

Output Relays: 2 form C, 4 form C, or 2 form A solid state  
Stored Information: Steam Tables (saturated and superheated)  
AGA, NX19 for Natural Gas

For more information, please visit our website at [www.sponsler.com](http://www.sponsler.com)