

# PRODUKT ÜBERSICHT

Ein Leitfaden für Produkte der Segmente Öl & Gas, Petrochemie, Chemie und Energie.

- Mess- und Regeltechnik
- Temperatur-Sensoren
- Probenahmesysteme
- Elektronische Instrumentierung

Exklusiv Vertrieb

Deutschland & Österreich



SOR® Kundendienstmitarbeiter bespricht Drucklösungen mit einem Betriebsleiter einer Bergbau- und Zementanlage in Sugar Creek, Missouri.





### **Pressure Transmitters**

# 800 Series Compact Transmitters

- Includes Modbus communications
- HART® 7 with 4-20 mA or 1-5 VDC output
- Durable, compact 316 stainless steel explosion proof housing
- 9-way configurable normally-open solid state switch output
- Accuracy of +/-0.25% (URL)
- FM and ATEX certified for hazardous locations in U.S., Canada and Europe
- Dual Seal approval available

• 3 year warranty

**Smart** 

**Pressure** 

**Transmitter** 



# 1800 Series Conventional Transmitters

- Gauge Pressure Ranges
  - -1 psi to 1 psi through -14.5 psi to 14,500 psi -6 kPa to 6 kPa through -100 kPa to 100 MPa
- Differential Pressure Ranges
   -0.87 psid to 0.87 psid through -72.5 psid to 1,450 psid
   -6 kPa to 6 kPa through -500 kPa to 10 MPa
- 4-20 mA with optional HART®,
   1-5VDC low power or Modbus output
- ±0.075% accuracy (F.S.)
- Aluminum explosion proof housing
- Standard push-buttons for setup
- Optional integral LCD display
- EMC (EMI/RFI) protection
- ATEX / IECEx certified for intrinsically safe and flameproof applications
- CSA certified for explosion proof applications
- 2, 3 & 5 valve manifolds available

3 year warranty

1800DM
Differential
Pressure with
Direct Mount
Diaphragm Seal





1800PT

Pressure

1800PR

Pressure

Conventional

Piezoresistive Gauge

# **Pressure and Temperature Switches**



- Rugged, high-cycle rate of tolerance, long life, vibration resistant
- Excellent corrosion resistance to withstand demanding applications
- High resolution of set points
- Variety of process connections and sizes
- Weatherpoof and explosion proof housings
- Wide selection of wetted parts
- No periodic service required
- Pressure Simple installation
  - High repeatability
  - Narrow dead band
  - SIL Certified

• 3 year warranty – one of the longest in the industry





Mini Hermet
Pressure Switch

SORInc.com | SmartSensors.com | SENSOReng.com | PYRAGON.com





### **Level Switches**

700 Series **Top Mounted** 

Switches

Displacer Level



- Carbon or stainless steel construction, exotic materials available
- High pressure capabilities
- Wide variety of agency approvals
- Float, displacer and electronic level switches available
- Versatile switching mechanisms for retro-fit situations
- Excellent corrosion resistance to perform in harsh environments
- Easy to install and maintain with low cost of ownership
- 5 year warranty
- PED is available on some level products

• SIL certified

1500 Series
Level Switches with
Manual Check

wnership

100 & 200 Series
Flanged, Sealed Steam
Trap Chambered
Level Switches



- Versatile and long lasting
- · Rugged, industrial quality transmitters designed to be versatile
- Models to handle all processes from liquids to solids
- Excellent performance in harsh conditions
- All SOR level transmitters may be customized to meet your specific requirements
- Variety of RF probes available for multiple applications
- Worldwide service and fast delivery
- Emergency shipments available
- Low cost of ownership
- · Factory tested before shipping

815LT
Submersible Smart
Level-Pressure
Transmitter



815DT Smart Differential Pressure Transmitter



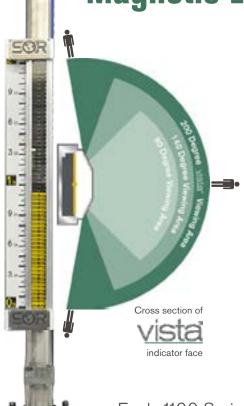
670 Series
RF Continuous
Level
Transmitters

Level switches and transmitters provide superior alarm and monitoring control for heavy industries such as power generation, refining, petrochemical and general manufacturing.









- 200° viewing angle with **VSIA** indicator
- Forward viewing distance of 250 feet (76 meters)
- Chambers designed to ASME B31.1 B31.3 guidelines
- Schedule 10 & 40 316/316L stainless steel construction standard, schedule 80+ and other materials available
- ASME Section IX and AWS qualified welding system
- Standard dimensional drawings available at quotation
- No pressurized floats
- Interface detection capability
- NACE, CRN and PED certifications available
- High temperature and cryogenic designs suitable for extreme applications
- Extensive auxiliary instrumentation available
- 5 year warranty

Each 1100 Series MLI is engineered for your exact application and manufactured to our rigorous quality standards.

#### 1000 Series

# **Engineered Bypass Chambers**

- Completely customizable design
- Chambers designed to ASME B31.1/B31.3 guidelines with certificates available
- 2-8" chamber size with Schedule 10 XXS wall thickness in a wide variety of materials
- ASME Section IX and AWS qualified welding system
- Hydrotested @ 1.5 MAWP standard
- NACE, CRN and PED certifications available
- Inspections and testing certifications done to SOR standards or your specific requirements
- Extensive list of auxiliary instrumentation available
- 5 year warranty





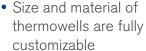
# **Temperature Sensors and Thermowells**



- Industrial, remote mount and field adjustable thermocouples and RTDs
- Sanitary RTDs and thermocouples
- High pressure thermocouples
- Hi temp and ceramic protection tube assemblies
- General purpose and specialty sensors
- Multipoint sensors and assemblies
- Transmitters and indicators
- Sample probes









 Quick delivery on standard product offering



## **Specialty Sensors**

We offer a variety of specialty temperature sensors that can be customized to meet your specific application.

#### **Sample Probes**

Used in applications where a representative sample needs to be extracted from a process.

**Multipoint Sensors** 

Typically used in applications where there is a need for temperature profiling at various points over distance.

Tubeskin Thermocouples Measures temperature of the tube wall to determine tube life and temperature trending along with detection of coke buildup on tubes.

**Custom Assemblies** 

We have the capabilities to help design and manufacture custom temperature solutions for a variety of applications.

**High Temp Assemblies** 

High temp assemblies are for applications where the temperatures are in excess of 2000°F/1093.3°C.





# ELECTRONIC INSTRUMENTATION

- High quality industrial temperature transmitters, signal isolators, signal conditioners, alarm trip and custom OEM designs
- Field proven wide range ambient designs
- IEC pre-compliance testing
- Standard dimensional drawings available at quotation
- 100% final test and inspection
- · Nuclear qualified products are available
- 4 year warranty

#### **2800 SERIES**

#### Universal T/C and RTD Temperature Transmitters

- Self-contained, programmable
  - Built in display
  - -40 to +85°C
     Ambient Installation
    - RFI protected
  - Accuracy: <1 °C or °F</li>



#### **100 SERIES**

#### Two Wire Temperature Transmitters (Hockey Puck Style)

- Temperature, T/C and RTD
- AC Current and AC Voltage
  - VDC and mVDC
  - Hz (Speed and rotation)
- -30°C to +85°C Ambient Installation



#### **200/300 SERIES**

#### DIN Mounted Temperature Transmitters

- 2 and 3 Wire Output Powered
- Current and Voltage Outputs
- Temperature, T/C and RTD
- AC Current and AC Voltage
- Hz (Speed and rotation)
- -30°C to +85°C Ambient Installation



#### **ALARM MODULES**

#### **Critical and Dedicated Point Monitoring**

- Inputs VAC, AAC, VDC, mADC, T/C RTD
- Adjustable Time Delay
- Latching Action
- Adjustable Deadband
- 10A, SPDT Relay Output



#### **ISOLATORS**

#### **Solves Ground Loop Problems**

- DIN and Hockey puck packaging
  - Input Loop Powered
- 2 and 3 Wire output loop power
  - Isolated Prime Power
  - Quick shipment available









- SENSOR Sampling has a design to meet all your liquid and vapor applications, even the most difficult and dangerous.
- Systems are designed to meet Leak Detection Repair (LDAR), Maximum Achievable Control Standards (MACT) and Volatile Organic Compounds (VOC) emission standards.
- PED compliant and TPED components can be supplied when required.
- Since no two sampling systems are exactly alike, each of our products is engineered to order.



#### Low Vapor Pressure Liquids

- Inline Sampling Systems (ISS)
- Basic Bottle Sampling Systems (BBSS)
- Pressure Isolating Bottle Sampling Systems (PIBSS)



#### **Chemical Industry**

• Inline Valve Sampling System (IVSS)



#### Hydrofluoric (HF) Acid

• Hydrofluoric Acid (HF) (HFSS)



#### **Heavy Liquids**

• Heavy Products Sampling System (HPSS)

RAM Sampling System (RSS)







- Steam Condensate & Boiler Blowdown (SCSS)
- Spot Sampling for Trace Gases (DTSS)
- Steam & Hot Condensate (SHCSS)
- Tank Farms (TFSS)
- Sulfuric Acid (**BBSS**)
- Phosgene (SHFVSS)







#### **SALES OFFICES**

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