

PRODUCT OVERVIEW

A guide to measurement and control devices and sampling systems for the Oil & Gas, Petrochemical, Chemical, Power, Water & Wastewater, Pulp & Paper industries and many more.

SOR Measurement and Control

SSi Temperature Sensors

SENSOR Sampling Systems



An SOR® customer service representative discusses pressure solutions with a plant manager at a mining and cement facility in Sugar Creek, Missouri.

Pressure Transmitters

800 Series Compact Transmitters



815PT
Smart
Pressure
Switch
Transmitter

- 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 $\pm 0.25\%$ (URL)
- FM and ATEX certified for hazardous locations in U.S., Canada and Europe
- Dual Seal approval available
- 3 year warranty

815DT
Smart
Differential
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
- $\pm 0.075\%$ 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



1800PT
Gauge
Pressure



1800PR
Piezoresistive
Gauge
Pressure



1800DP
Differential
Pressure



1800RM
Differential Pressure
with Remote Mount
Diaphragm Seals

1800DM
Differential
Pressure with
Direct Mount
Diaphragm Seal

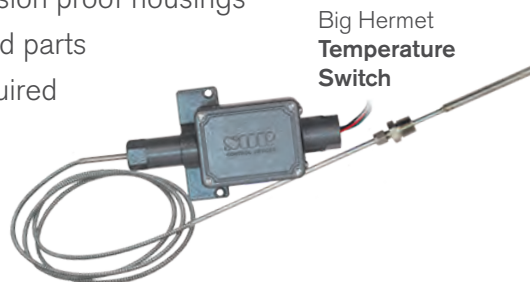


Pressure and Temperature Switches



NN
Pressure
Switch

- 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
- Weatherproof and explosion proof housings
- Wide selection of wetted parts
- No periodic service required
- Simple installation
- High repeatability
- Narrow dead band
- SIL Certified
- 3 year warranty



Big Hermet
Temperature
Switch



Mini Hermet
Pressure Switch

Level Switches

700 Series Top
Mounted Displacer
Level Switches



- Stainless steel switching mechanisms – no aluminum or brass
- 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
- Self-test functionality on some level products
- Easy to install and maintain with low cost of ownership
- PED is available on some level products
- SIL certified
- 3 year warranty for electronic level switches
- 5 year warranty for mechanical level switches

1500 Series
Level Switches with
Manual Check



100 & 200 Series
Chambered
Level Switches



2700 Series
Ultrasonic Level
Switches



Level Transmitters

- 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 Pres-
sure Transmitter

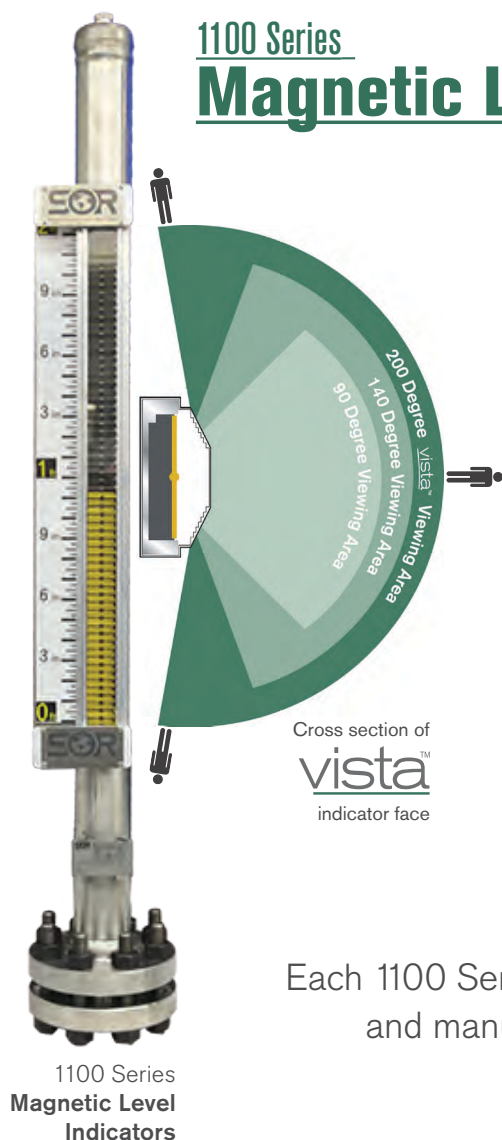


670 Series
RF Continuous
Level
Transmitters



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

1100 Series Magnetic Level Indicators



- 200° viewing angle with vista™ 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
- 1 year warranty on indicator
- 5 year warranty on chamber

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



1000 Series
Engineered
Bypass Chambers

Temperature Sensors and Thermowells

- Industrial, remote mount and field adjustable thermocouples and RTDs
- Sanitary RTDs and thermocouples
- High pressure thermocouples
- High temperature and ceramic protection tube assemblies
- General purpose and specialty sensors
- Multipoint sensors and assemblies
- Transmitters and indicators
- Complete custom application designs
- Sample probes
- Size and material of thermowells are fully customizable
- Barstock and pipe thermowells
- Quick delivery on standard product offering

Thermowells



Temperature Assembly with a Ceramic Terminal Block and Flanged Thermowell



Temperature Assembly with a Digital Display and Thermowell

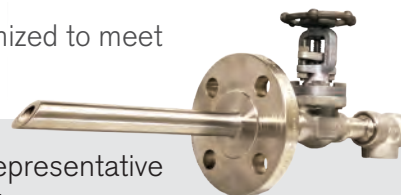


Engineered-To-Order Specialty Temperature Sensors

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 Temperature Assemblies

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



Sampling Systems

- 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**)

Liquefied Gases and Vapors

- Liquefied Gas Sampling System (**LGSS**)
- Vapor Sampling System (**VSS**)



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**)



Other Applications



SHCSS



DTSS

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

Spare Parts and Consumables for ANY BRAND of Sampling System

SENSOR
SAMPLING SYSTEMS

- SENSOR Sampling offers consumables and spare parts for **ANY** type of sampling system from **ANY** manufacturer which makes it more convenient for you to get what you need from one trusted source, saving you time and resources.
- At SENSOR Sampling, we understand how important the quality, integrity and interchangeability of these replacement components are, and we hold these critical elements to the highest manufacturing standards.

- **Bottles, Caps and Septum**

- **Sample Coolers**

- **Tube-In-Tube Coolers**

- **Back Pressure Relief Valves**

- **Thermal Shut-off Valves**

- **High Pressure Reducer Valves**

- **Needles**

- **Quick Connects**

- **Flex Hoses**

- **Pressure Gauges**

- **Emission Filters**

- **Sight Flow Indicators**

- **Cylinders**

- **Bottle Shrouds**

- **Enclosures**

- **Various Replacement Valves**

- **Rotameters**

- **Regulators**

- **Pipe Stands**

- **And Many More**



Back Pressure
Relief Valves



Bottle
Shrouds



CONCENTRIC™
Needle



Bottles



Thermal
Shut-Off
Valves



High
Pressure
Reducer
Valves



Tube-in-Tube Coolers



Quick
Connects



Coolers



Steam Adapter
Quick Connect



Enclosures



Pressure
Gauges

SYSTEM SUPPORT



1800 Series PRESSURE TRANSMITTERS



SHORT LEAD TIMES



4-20 mA WITH OPTIONAL HART®, 1-5VDC
LOW POWER OR MODBUS OUTPUT



±0.075% ACCURACY (F.S.)



ATEX/IECEx CERTIFIED FOR INTRINSICALLY
SAFE AND FLAMEPROOF APPLICATIONS



CSA CERTIFIED FOR EXPLOSION
PROOF APPLICATIONS



2, 3 AND 5-VALVE MANIFOLDS



3 YEAR WARRANTY

1800DM
Differential Pressure with
Direct Mount Diaphragm Seal



1800PT
Conventional
Gauge
Pressure



1800PR
Piezoresistive
Gauge Pressure



1800DP
Differential
Pressure



1800RM
Differential Pressure
with Remote Mount
Diaphragm Seals

EASY | RUGGED | RELIABLE

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SOR
CONTROLS GROUP