

# SUPPLIERS OF SENSORS AND CONTROLS FOR PRESSURE - LEVEL - FLOW - VIBRATION - DISPLACEMENT AND TEMPERATURE.

			
<p><b>PRESSURE SENSORS AND SWITCHES</b></p>	<p><b>LEVEL SENSORS</b></p>	<p><b>FLOW SWITCHES</b></p>	<p><b>LEVEL SWITCHES</b></p>
			
<p><b>BATTERY TYPE FLOW METERS</b></p>	<p><b>MECHANICAL - WATER FLOW METERS</b></p>	<p><b>MECHANICAL - OIL FLOW METERS</b></p>	<p><b>ELECTRONIC FLOW METERS</b></p>
			
<p><b>DISPLACEMENT SENSORS</b></p>	<p><b>VIBRATION - ANGLE - LOAD</b></p>	<p><b>TEMPERATURE SENSORS</b></p>	<p><b>DIGITAL DISPLAYS &amp; SIGNAL CONDITIONING</b></p>

## REMOVABLE ELEMENT WOLTMAN WATER METER



- Sizes : 50mm to 300mm (others available)
- Output : Reed switch Pulse
- Standard flange : T16 (ISO7005-1)
- Pressure rating : PN16 (16 Bar)
- Class 2 : R50 Turbine and R20 Paddle available
- ISO4064 Approved
- Accuracy : Qt-Qs 2%, Qmin 5%
- Ex - Stock

### APPLICATION

R50 Turbine used for potable water, R20 Paddle wheel used for irrigation / industrial water. Flow Totalizer with pulse output for bulk water monitoring.

## MULTI-JET VANE WHEEL WATER METERS



- Sizes : 15mm to 50mm
- Output : Reed switch Pulse
- Threaded connection with tail pieces
- Pressure rating : PN16 (16 Bar)
- Class 2 : R80 & ISO4064 Approved
- Accuracy Qt-Qs 2%, Qmin 5%
- Ex - stock

### APPLICATION

R80 Multi-jet used for potable water totalizing. Flow Totalizer with Pulse output for water monitoring.

## ULTRASONIC BATTERY OPERATED WATER METER



- Battery operated > 8 years
- No moving parts, Ultra low flow measurement
- Line size : 15mm to 300mm (others available)
- Output : Hall effect Pulse (RS485 Modbus optional)
- Standard flange : T16 (ISO7005-1)
- Pressure : PN16 (16 bar)
- Class 2 : R250 (high range ratio)
- Accuracy Qt-Qs 2%, Qmin 5%
- IP68 enclosure
- Ex stock

### APPLICATION

R250 Ultrasonic flow meter is used for water totalizing. Flow Totalizer and rate with Pulse output for bulk water monitoring.

## ULTRASONIC CLAMPON FLOW METERS



- Clamp-on, non-intrusive flow rate and total measurement
- No moving parts
- Onsite programmable
- Line sizes : 15mm to 6000mm
- Output for wall mount : Pulse, RS485, 4-20mA
- Accuracy : 1-2%
- Wall mount AC/DC powered or handheld battery version available
- Ex stock

### APPLICATION

Non-intrusive water flow rate and total measurement, Offering display of rate, total, reverse flow and flow velocity. Can be used with water, diesel, oils and other liquids.

## ELECTRONIC TURBINE FLOW METERS



- Inline turbine flow meter for rate and total flow measurement
- High Accuracy : 1% or 0.5% Optional
- Temp range : -20 to 150 Deg C
- Line size : 4mm to 200mm
- Outputs : 4-20mA, Pulse & RS485
- 304 / 316 stainless steel construction, Turbine 2Cr13
- Ex stock

### APPLICATION

High accuracy flow measurement for water, diesel, and oil applications, offering display of rate and total.

## ELECTROMAGNETIC FLOW METERS



- Inline electromagnetic flow meter for rate and total flow measurement
- No moving parts
- High accuracy : 0.5%
- Compact display or wall mount available
- Line size : 10mm to 600mm
- Outputs : 4-20mA, Pulse & RS485
- Various liner materials available
- Ex stock

### APPLICATION

High accuracy flow measurement for water applications, offering display of rate and total.

## BATTERY OPERATED FLOW METERS



- Inline flow meter for rate and total flow measurement
- Suitable for mobile and remote applications
- Resettable totalizer
- High accuracy and low cost
- Line size : 15mm to 50mm
- Various wetted parts available
- Ex stock

### APPLICATION

Flow measurement for water, diesel and oil applications, offering display of rate and total.

## MECHANICAL FLOW TOTALIZERS



- Inline flow meter for rate and total flow measurement
- Suitable for mobile and remote applications
- Resettable totalizer
- High accuracy and low cost
- Line size : 15mm to 150mm
- Various wetted parts available
- Ex stock

### APPLICATION

Flow total measurement for diesel and oil applications.



## PRESSURE SENSORS



- Available ranges : 100 millibar to 2200 bar
- Outputs : 4-20mA and Voltage variants
- High accuracy 0.25%
- Excellent performance, reliability, stability and proof pressures
- Various process and electrical connections available
- Wetted parts : All stainless / welded Diaphragm
- Ex stock

### APPLICATION

Hydraulic systems, pumps, agricultural, food & beverage, general industry, HVAC, marine, medical, OHV & speciality vehicle, water & waste.

## PRESSURE SWITCHES



- Adjustable ranges : 280 millibar to 344 bar
- Switch N/O, N/C & SPDT available
- Various process connections and electrical connections available
- High proof pressures for industrial and demanding applications
- Excellent repeatability and performance
- Ex stock

### APPLICATION

Hydraulic systems, pumps, agricultural, food & beverage, general industry, HVAC, marine, medical, OHV & speciality vehicle, water & waste.

## HYDROSTATIC LEVEL SENSORS



- Range : 1 meter to 250m
- Output : 4-20mA / Voltage / Modbus
- Accuracy : 0.25%
- Custom made cable lengths to suit application
- All stainless steel diaphragm
- IP68 fully submersible
- Ex stock

### APPLICATION

Tank liquid level, Borehole level, level control systems, flood warning, sea tide monitoring, dam and reservoir level, VSD control, diesel and oil level measurement, water and waste.

## ULTRASONIC LEVEL SENSORS



- Range : 1 meter to 25m
- Output : 4-20mA / Voltage / Modbus / Relay
- Accuracy : 0.5%
- None contact level measurement
- Onsite customer programmable range
- ABS plastic wetted parts
- Compact display or Wall mount display
- Ex stock

### APPLICATION

Tank liquid level, chemicals , contaminated liquids, sewage, level control systems, flood warning, sea tide monitoring, dam and reservoir level, VSD control, diesel and oil level measurement, water and waste.

## LEVEL SWITCHES – TOP ENTRY



- Custom made top entry multi level switches
- All stainless steel construction
- Plastic or Stainless steel options
- SPST and SPDT switches available
- High temp available to 150 deg C
- Various process connections and electrical connections available
- Ex stock

### APPLICATION

Tank liquid level control, Pump control for high and low set points.

## LEVEL SWITCHES – SIDE ENTRY



- Side entry with various size process connections available
- SPST and SPDT switches available
- Plastic and stainless-steel options available
- Ex stock

### APPLICATION

Tank liquid level control, Pump control for high and low set points.

## FLOW SWITCHES



- Suitable for various pipe sizes
- Brass & stainless steel options
- SPST, SPDT and PNP / NPN output available
- High operating pressures
- Ex stock

### APPLICATION

Pump no flow protection, Lubrication systems.

## ELECTRONIC LEVEL SWITCHES



- Electronic level switch - NPN output
- No moving parts
- Capacitive & optical technology
- Tolerates coating
- High cycle life for demanding applications
- Ex stock

### APPLICATION

Coolant reservoir monitoring, lubricant systems, OHV vehicles and hydraulic reservoirs, water in diesel and oil contamination.

## TEMPERATURE SENSORS



- Custom made temperature sensors to suit application
- RTD : PT100 and PT1000
- Thermocouples : Type K, Type J, Others available
- Various electrical connections and process connections available
- Ex stock

### APPLICATION

Temperature monitoring and control for all industries and systems, lubricant systems, OHV vehicles and hydraulic systems.

## VIBRATION SENSOR



- Ranges : 20mm/s & 50mm/s (Others available)
- Output : 4-20mA Loop powered
- High accuracy
- IP67 electrical connection
- Ex stock

### APPLICATION

Industrial machines, electrical motor, bearing housing, pump systems and machine vibration monitoring.

## DIGITAL PROCESS INDICATORS

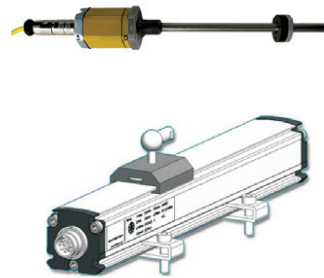


- Universal input digital displays
- Inputs : 4-20mA , voltage, millivolts, thermocouple, RTD, Pulse
- Available in 90-250 VAC, 12Vdc and 24Vdc supply power
- Relays + Scalable 4-20mA retransmission Output available
- Ex stock

### APPLICATION

System monitoring and control, Visual process display.

## MAGNETOSTRICTIVE DISPLACEMENT SENSORS



- Non-contacting displacement measurement
- Range 25mm to 7600mm
- Output : 4-20mA / SSI
- Non-linearity : 0.01% of stroke
- Repeatability : 0.02% of stroke

### APPLICATION

Hydraulic cylinder position feedback, level measurement and displacement measurement.

## LVDT DISPLACEMENT SENSORS



- Stainless steel construction
- Range 1mm to 940mm
- Output : 4-20mA / Voltage
- High accuracy
- High cycle life and resolution

### APPLICATION

Displacement measurement.

## DRAW WIRE POTENTIOMETER / ENCODER



- Cost effective
- Suitable for long sensing distances
- Range 100mm to 50m
- Output : 4-20mA / Voltage / Resistance / Pulse
- High accuracy

### APPLICATION

Displacement measurement, position feedback.

## INCLINOMETER / ANGLE SENSOR

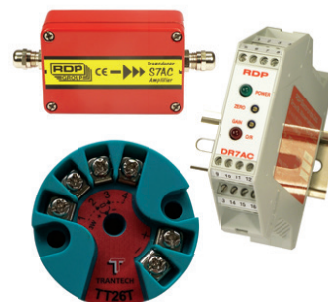


- Cost effective
- High accuracy and performance
- Dual Output for X and Y axis
- Output : 4-20mA / Voltage / Modbus / Switch
- High accuracy,

### APPLICATION

OHV machinery, solar energy systems, mechanical and civil engineering.

## SIGNAL CONDITIONING EQUIPMENT



- Available for various signal input types
- Output : 4-20mA / Voltage
- High accuracy
- Programmable

### APPLICATION

Signal conditioning of various sensors.