



**SLENTECH**

*Innovation with Precision*

## PRODUCT CATALOGUE

Industrial Sensors | Instrumentation | Process Automation

## TEST & MEASUREMENT

- Displacement
- Strain Gauges
- Acceleration, Vibration & Tilt
- Inertial Navigation & Gyros
- Force & Load Cells
- Torque
- Civil Engineering/Geotech

## INSTRUMENTATION

- Dataloggers
- DAQ Systems/Recorders/Analysers
- Instrumentation Amplifiers
- Strain Amplifiers/Signal Conditioners
- Digital Displays

## AUTOMATION SOLUTIONS

- Pressure & Level
- Temperature
- Humidity & Temperature
- Flow
- Watermeters
- Pneumatic Controls



Based in Melbourne Australia, Slentech is leading the way and delivering results with innovative industrial process & automation solutions.

Slentech is wholly-owned Industrial Test & Measurement equipment company with over 10 years' experience in supplying Process Equipment and Industrial Sensors & Instrumentation like Industrial Transducers & Transmitters, Flow Meters, Water Meters, Pneumatic Controls, Data Loggers, DAQ Systems and Digital Display Meters for measuring physical parameters like Displacement, Strain, Force, Load, Torque, Acceleration, Angle & Tilt, Inertial, Pressure, Level, Temperature, Humidity and Flow within Australia, New Zealand & Oceania region.

Our focus is on quality, precision, reliability and durability. Our commitment to progress and our expertise matched by our unrivaled comprehensive product range from world leading manufacturers, enable our customers to turn ideas into technology that can transform the tomorrow of industrial automation world.



Our motive is to provide innovative & cost-effective solutions within the process improvement and systems automation & integration marketplace. We specialise in making processes more efficient & flexible through systems consultation and automation implementation. We assist our customers to gain a competitive advantage through improved operation and efficiencies.

Our success is driven, not only by our innovative products but also by simplicity of our operation model, our technical guidance & support, exceptional customer service & off course by our competitive pricing.

Slentech is a leader in helping businesses automate their production, processing and distribution in the oil & gas, mining, chemical, pulp & paper, food & beverage, power, water & wastewater, iron & steel, pharmaceutical, general engineering, universities, R&D, defence, automotive, ship building, aerospace, construction & geotech and other industries.

To find out more about Slentech,  
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## DISPLACEMENT

A wide variety of Displacement Sensors (Contact & Non-Contact) with different technologies are available to measure all mechanical/physical magnitude like movement, height, thickness, shifting of position, gap, vibration, expansion, inclination and distances.

- Machine integration & component inspection
- Piston & float position in hydraulic cylinders
- Thickness of steel panels & hot billets
- Test vibrations in automotive industry
- High-dynamic material testing
- Temperature expansion in power production
- Elevator position
- High-speed tracking of the weld bead
- Robotics applications
- Bulge & dent in tyres & wheels profiling

APPLICATIONS

### Triangulation Lasers



- Non-Contact with high precision
- Range: 3 - 1300mm
- Resolution: up to 0.16 $\mu$ m
- Sampling Rate: up to 9.4KHz
- Output: Serial & Analog

### Compact Triangulation Lasers



- Ultra-compact, fast & accurate
- Range: 10 - 500mm
- Resolution: 0.01% FS
- Sampling Rate: 9.4KHz
- Output: Serial & Analog

### Confocal Sensors



- For shiny & transparent surfaces
- Range: 0.1 - 24mm
- Resolution: up to 8nm
- Sampling Rate: up to 5KHz
- Output: Serial & Analog

### Long Range Lasers



- Accurate "Time of Flight" sensors
- Range: up to 3Km
- Accuracy: up to 1mm
- Sampling Rate: up to 2KHz
- Output: Serial & Analog

### Laser for Hot Surfaces



- Ideal for red hot & glowing surfaces
- Range: 0.15 - 500m
- Resolution:  $\pm 0.1$ mm
- Sampling Rate: 100Hz
- Output: Serial & Analog

### Laser Profile Scanners



- 2D Scanners for surface height profiles
- Range (Z-axis): 5.9 – 1000mm
- Range (X-axis): 3.9 – 500mm
- Resolution (Z & X axis): up to 3 $\mu$ m
- Scan Frequency: up to 200Hz

# LVDT, LVIT, EDDY CURRENT, DRAW WIRES & ROTARY ENCODERS

## LVDT & LVIT with Free Core



- Precise & wear-free measurement
- Range: 2-1000mm
- Linearity: up to 0.1% FS
- Carrier Frequency: up to 10KHz
- Optimal body-to-stroke ratio & accuracy

## LVDT & LVIT – Probe



- Compact & Rugged
- Range: 2-200mm
- Linearity: up to 0.1% FS
- Carrier Frequency: up to 10KHz
- Rugged & optimal body-to-stroke ratio

## LVDT & LVIT – Pressure-Resistant



- Contact measurement up to 300bar
- Range: 2-1000mm
- Linearity: up to 0.25% FS
- Carrier Frequency: up to 10KHz
- Ideal for dirty & harsh conditions

## LVDT & LVIT – DC/DC with Integral Electronics



- Sensors with conditioning electronics
- Range: 25-1000mm
- Linearity: up to 0.25% FS
- Output:  $\pm 10V/0-10V$ , 4-20mA & digital
- Easy-to-mount sleeved core

## Eddy Current with Integrated Electronics



- Compact & Non-contact for harsh areas
- Range: 0.25-15mm
- Linearity: up to 3% FS
- Dynamic Frequency: up to 500Hz
- Output: Analog signals

## High Temperature Eddy Current Proximity (up to 230°C)



- An IP67 sensor for high temperature
- Range: 0.25-15mm
- Linearity: up to 3% FS
- Dynamic Frequency: up to 10KHz
- Ideal for rapid dynamic motions

## Draw Wires



- Linear position over greater distances
- Range: 30mm – 40m
- Accuracy: up to 0.02% FS
- Compact plastic & rugged stainless steel
- Output: Analog & Digital

## Compact Rotary Encoders



- Compact & stainless steel food safe
- Impulse counts: 4 ... 7500
- Highly durable 6 -10mm full shaft
- 10 ... 30VDC or 5VDC
- Protection class IP67 or IP68

## Rugged Industrial Encoders



- Rugged hollow shaft rotary encoder
- Impulse counts 4 ... 5000
- 8-25mm hollow shaft
- Protection class IP65
- 10 ... 30VDC or 5VDC

## STRAIN GAUGES

A wide variety of strain gauges are available for all types of strain measurement to match diverse measuring conditions and test material in various industrial, scientific and transducer applications.

- Monitoring of bridge supports and cracks
- Stress of cranes & construction machinery
- Strain during lifted transport & truck loading
- Stress evaluation of auto components & bodies
- Strength testing of building materials
- Vibration of buildings during an earthquake



### General Stress



- Uniaxial, Biaxial & Triaxial
- Grid Length: 0.2 – 30mm
- Resistance: 120 – 1K $\Omega$

### Waterproof (Foil & Weldable)



- Uniaxial, Biaxial & Triaxial
- Grid Length: 2 – 5mm
- Resistance: 120 $\Omega$  & 350 $\Omega$

### Concrete (Foil & Wire)



- Uniaxial, Biaxial & Triaxial
- Grid Length: 10 – 120mm
- Resistance: 120 $\Omega$

### Composite & Plastic



- Uniaxial & Triaxial
- Grid Length: 2 – 5mm
- Resistance: 120 $\Omega$  & 350 $\Omega$

### High Temperature Foil (Up to 350°C)



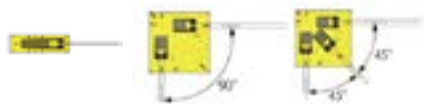
- Uniaxial, Biaxial & Triaxial
- Grid Length: 0.2 – 5mm
- Resistance: 120 $\Omega$  & 350 $\Omega$

### Low Temperature (Up to -269°C)



- Uniaxial & Triaxial
- Grid Length: 0.2 – 5mm
- Resistance: 120 $\Omega$  & 350 $\Omega$

### High Elongation (10 – 30%)



- Uniaxial, Biaxial & Triaxial
- Grid Length: 1 – 10mm
- Resistance: 120 $\Omega$

### Ultra-Small Strain



- Uniaxial & Biaxial
- Grid Length: 1 – 9mm
- Resistance: 60 – 10K $\Omega$

### Non-Magnetoresistive



- Uniaxial & Biaxial
- Grid Length: 2 – 5mm
- Resistance: 120 $\Omega$  & 350 $\Omega$

### Bending Strain



- Uniaxial
- Grid Length: 30mm
- Resistance: 350 $\Omega$

### Gauges with Protector



- Uniaxial, Biaxial & Triaxial
- Grid Length: 2 – 5mm
- Resistance: 350 $\Omega$

### Embedded (For Mortar or Concrete)



- Uniaxial
- Grid Length: 10mm & 70mm
- Resistance: 120 $\Omega$

### Weldable/Encapsulated (Up to 950°C)



- Uniaxial (Static/Dynamic)
- Grid Length: 5 – 20mm
- Resistance: 120 $\Omega$

### Crack (Flat & Curved Surfaces)



- Uniaxial
- Grid Length: 5.4mm & 9mm
- Resistance: 1 $\Omega$

### Residual Stress



- Uniaxial, Biaxial & Triaxial
- Grid Length: 1 – 3mm
- Resistance: 120 $\Omega$



## FORCE & LOAD CELLS

A large variety of Load Cells and Force transducers that convert the load or force acting on it into a measurable (analogue or digital) output, are available.

- General force measurement in testing or research
- Measuring weights in tanks, hoppers & vehicles etc.



Types	Comp	Tension	Washer	S-Type	Tension/Comp	Beam	Multi Force	Multi Axis	Pin Type	Single Point
Range	5N-5MN	500N-50KN	10KN-5MN	500N - 50KN	50N-2MN	50N-20KN	1KN & 3KN	500N-300KN	10KN-500KN	20-150KN
Accuracy	±0.3% RO	±0.5% RO	±1% RO	±0.03% RO	±0.5%RO	±0.05% RO	±0.5% RO	±0.03% RO	±1 - 2% RO	±0.2% RO

## CIVIL/GEOTECH TRANSDUCERS

A wide range of transducers are available for measuring strain, stress, pressure or displacement in Civil engineering and Geotech applications.

- Civil engineering & construction work monitoring
- Monitoring the rock bed, landslide, structure & dams



Types	Inclination	Load	Pore Pressure	Water Level	Soil Pressure	Strain	Stress	Displacement	Crack Joint
Range	±5° & ±10°	5KN-2MN	200KPa-2MPa	10-30m	200KPa-2MPa	±6000 $\mu\epsilon$	300MPa	100-5000mm	±5mm
Accuracy	±0.5% RO	±0.5% RO	±1% RO	±0.15%RO	±1% RO	±1% RO	±1% RO	±2% RO	±2% RO

## TORQUE TRANSDUCERS

We provide all types of static, rotating & non-contact torque transducers for measuring and recording the torque for different industrial applications.

- Torque on engine, crankshaft, gearbox & rotor etc.



### Static (Non-rotary)



- Compact non-rotary with flanges
- Measuring Range: ±10KNm
- Accuracy: ±0.3% RO
- Output: Approx.1.5mV/V

### Rotating (Slip Ring)



- Slip-ring type with overload stopper
- Range: ±0.2 to ±2KNm
- Accuracy: ±1% RO
- Output: 0.75 to 1.5mV/V

### Rotating (Non-contact)



- Non-contact with built-in amplifier
- Range: ±0.1 to ±50KNm
- Accuracy: ±0.3% RO
- Output: ±5V, ±10V & 4 to 20mA

















## ACCELERATION & VIBRATION


Slentech offers the sensors with the most comprehensive technologies for acceleration, vibration and shock measurement. Acceleration & vibration sensors are specially designed to meet the requirements of reliable testing & measurement of the key industrial sectors and specific challenges of the most important test applications.









- Modal Analysis
- Crash Tests
- Vehicle Dynamics Testing
- Hydrodynamic Testing
- Durability Testing
- Flutter Testing
- Platform Stabilization
- Structural Analysis
- Structural Vibration Tests
- Flight Tests
- Condition Monitoring
- Pipeline Monitoring



Capacitive								
Range	±2 to ±400g	±2 to ±200g	±2 to ±400g	±2 to ±400g	±2 to ±400g	±2 - 400g	±2 to ±200g	±2 to 50g
Sensitivity	2000-10mV/g	1350-13.5mV/g	2000-10mV/g	2000-10mV/g	2000-10mV/g	10-2000mV/g	1350-13.5mV/g	4-0.16mV/g

Piezo Resistive								
Range	±500 to ±2000g	±500 to ±600g	±500 to ±2000g	±500 to ±2000g	±1 to ±20g	±1 to ±20g	±10 to ±50g	±100 to ±1000g
Sensitivity	0.4-0.13mV/g	0.4-0.10mV/g	0.4-0.13mV/g	0.4-0.13mV/g	0.5mV/V	0.5mV/V	0.5mV/V ± 20%	0.5mV/V ± 20%

Piezo Electric (IEPE)								
Range	±32 to ±1000g	±32 to ±1000g	±50 to ±2000g	±32 to ±1000g	±32 to ±1000g	±32 to ±1000g	±40 to ±400g	±225g
Sensitivity	250-5mV/g	250-5mV/g	100-2.5mV/g	250-5mV/g	250-5mV/g	250-5mV/g	10-1mV/g ±10%	1mV/g ±10%

Crash Testing								
Range	±1000 to ±2000g	±1000g	±100 to ±1000g	±1000g	±1000g	±1000 to ±2000g	±200g	±2000g
Sensitivity	1.2mV/V	2mV/V	0.5-2mV/V	1.75mV/V	1.5mV/V	1.2mV/V	1.3mV/V	6mV/V



# TILT, GYROSCOPE & INERTIAL MEASUREMENT

We offer wide range of highly reliable sensors with high performance & accuracy to measure angular speed, pitch & roll, velocity, positions, surge and heading.

- Inertial for airborne vehicles
- Inertial in naval applications
- Armoured vehicles navigation
- Driverless cars navigation
- Navigation for robots
- Navigation for drones
- Soldier navigation
- Indoor navigation



## Capacitive Tilt Uniaxial & Biaxial



- Range:  $\pm 15^\circ$ ;  $\pm 90^\circ$
- Resolution:  $0.005^\circ$
- Accuracy:  $\pm 0.1^\circ$

## Digital Tilt Sensors



- Angular Range:  $\pm 60^\circ$  (Pitch);  $\pm 180^\circ$  (Roll)
- Resolution:  $0.01^\circ$
- Accuracy:  $\pm 0.2^\circ$  (Static)

## Tilt Switches



- Angular Range:  $\pm 60^\circ$  (Pitch);  $\pm 180^\circ$  (Roll)
- Resolution:  $0.01^\circ$
- Accuracy:  $\pm 0.2^\circ$  (Static)

## Tilt Switches with Gyro



- Angular Range:  $\pm 60^\circ$  (Pitch);  $\pm 180^\circ$  (Roll)
- Resolution:  $0.01^\circ$
- Accuracy:  $\pm 0.5^\circ$  (Static);  $\pm 1^\circ$  (Dynamic)

## Digital Magnetic Compass



- Angular Range:  $\pm 90^\circ$  (Pitch);  $\pm 180^\circ$  (Roll)
- Resolution:  $0.01^\circ$
- Accuracy:  $\pm 0.2^\circ$  (Static)

## Spin Inclinometer



- Angular Range: X Axis:  $\pm 90^\circ$ ; Y Axis:  $\pm 60^\circ$
- Resolution:  $0.01^\circ$
- Accuracy:  $\pm 0.3^\circ$

## Gyros Uniaxial



- Range:  $\pm 75 - 900g$
- Sensitivity:  $1.1 - 13.2mV/g$
- Rate Noise Density:  $0.02^\circ/s/\sqrt{Hz}$

## Gyros Triaxial



- Range:  $\pm 75 - 900g$
- Sensitivity:  $1.1 - 13.2mV/g$
- Rate Noise Density:  $0.02^\circ/s/\sqrt{Hz}$

## Inertial Measurement Unit



- For linear & angular motion
- Light-weight with low power consumption
- Precision navigation & motion tracking

## Miniature Inertial Navigation System



- High positional accuracy
- Compact with high output rate
- Advanced statistical filtering

## Compact Inertial Navigation System



- Compact & robust system
- Suitable for dynamic environment
- Best-in-class performance

## MEMS Inertial Navigation System



- Accurate orientation & navigation
- Precise position & altitude
- Vibration resistant



## DATA ACQUISITION, SIGNAL CONDITIONERS & DIGITAL DISPLAYS

Slentech offers a comprehensive range of high-performance amplifiers, signal converters, data acquisition systems & digital displays for logging, recording & analysing the signals from strain gauges, load cells, pressure & torque transducers, accelerometers, displacement & temperature sensors etc.

- Condition monitoring in Construction/Geotech
- Real-Time automotive, rail & aerospace testing
- Education, Research & Development
- Environmental Monitoring
- Industrial automation projects
- Oil & Gas test rigs monitoring
- Testing & measurements in Windmill
- Defence applications

APPLICATIONS

## DATA LOGGERS & DAQ SYSTEMS

### Handheld Strain Datalogger



- Compact, Lightweight & Palm size
- Built-in bridge box for transducers
- Range:  $\pm 300k \times 10^{-6}$  strain
- Channels: max 33 (with NTB)
- SD card availability

### Multi-channel/Multi-function Dataloggers



- Strain up to  $20k \times 10^{-6}$  strain
- Resolution:  $0.1 \times 10^{-6}$
- Full bridge with max. 1000 channels
- Scanning Speed: 50 - 280ms/channel
- Fluorescent display & built-in printer

### Compact Recorder



- Compact recording with USB
- Small measurement, 4-16 channels
- Sampling Speed: up to 20KHz
- Stacked connection
- Dynamic DAQ Software

### Universal DAQ System



- 1, 2 & 4 slots with max. 256 channels
- LAN & USB port for PC connection
- Sampling Speed: 100KHz (1 channel)
- Compact flash memory card 2GB data
- Dynamic DAQ software

### High Speed Universal DAQ System



- 2 & 4 slots with max. 256 channels
- LAN, USB & 2GB CF for PC connection
- Sampling speed: 100KHz (3 channels)
- Real-time digital filter for clear waveform
- Dynamic DAQ software

### Compact & High-Speed Recorder



- 8 units for max. 32 channels
- LAN & 2GB CF for PC connection
- Sampling Speed: 100KHz (1 channel)
- Synchronous Sampling: 20KHz
- Ideal for on-vehicle testing

### All-in-one High Speed DAQ System



- Sampling Speed: 200KHz (32 channels)
- Up to 80 input channels
- Effective real-time processing

### Wireless Dataloggers



- Wireless communication GPRS/GSM
- Industrial grade rugged construction
- High resolution (24 bit) & accuracy

### Weather Monitoring Station



- IP 65 Compliant Enclosure
- High Resolution Data Logger (A/D 24 Bit)
- User configurations through SMS

## SIGNAL CONDITIONERS & STRAIN AMPLIFIERS

### Dynamic Strain Amplifiers



- Temperature drift compensation
- Output:  $\pm 10V$  & high SN ratio
- Frequency response DC to 10KHz

### Strain Signal Conditioners



- Fast response: up to 500KHz
- Long-distance testing: up to 2Km
- Non-linearity:  $\pm 0.01\%$  FS

### Multi-channel Signal Conditioners



- No PC required for setting
- Selectable 8 & 16 channels
- Ideal for vehicle testing

## INSTRUMENTATION AMPLIFIERS & DIGITAL DISPLAYS

### General Purpose High-Speed



- High-speed sampling: 2kHz
- Simultaneous output: analogue
- 5 modes of peak hold

### High-Speed Multi-channel



- Up to 4 transducers connection
- Switchable indicated values
- High-speed output

### Universal Digital Displays



- Analog, serial, TC & RTD inputs
- Dual-line 6-digit display, 0.60" & 0.46"
- 2/4 relays + isolated 4-20mA output

### Large Size Digital Displays



- 4-20mA,  $\pm 10V$ , TC & RTD Inputs
- 2 relays with alternation & time delays
- 4-20mA, RS-232 & RS-485 output

### Wireless Displays



- Replaces 4-20 mA wires
- 1.5km clear-sight & 500 ft indoor range
- 4-20mA, digital & RS-485 Modbus output

### Explosion Proof Displays



- Analog, serial, TC & RTD inputs
- Sleek die-cast aluminum enclosures
- Relays + 4-20mA output





## PRESSURE & LEVEL

A pressure sensor (pressure transmitter) converts the physical quantity 'pressure' into an industry standard signal. Our portfolio covers a wide spectrum of pressure transducers, pressure transmitters, pressure level sensors with wide measurement range up to 500MPa for all standard & non-standard applications in various industries.

- General industrial applications
- Paper & Recycling Industry
- Automotive engineering
- Hydraulics & Pneumatics
- Industrial furnaces & die-casting machines
- Air conditioning & Refrigeration
- Mobile Hydraulics
- Water & wastewater pressure monitoring
- Point level measurement in rivers, rivulets, lakes or weirs
- Filling level measurement in tanks, vessels, water systems

APPLICATIONS

### General Pressure Transmitters



- Range: -1 to 1000bar
- Protection class: IP67 (option IP69)
- Compact, rugged & highly reliable
- Output: Analog (Current & Voltage)
- Accuracy:  $\pm 0.5\%$  FS, Option  $\pm 0.25\%$  FS

### High Precision Transmitters



- Range: 0...10mbar to 0...2000bar
- Media temperature: -40 to 85°C
- Protection class: IP67 (option IP69)
- Output: Analog, digital & others
- Precision:  $\pm 0.15\%$  FS, Option  $\pm 0.1\%$  FS

### High Pressure



- Range: 0 to 5000bar
- Media temperature: -40 to 125°C
- Protection class: up to IP69
- Output: Analog (Current & Voltage)
- Accuracy:  $\pm 0.50\%$  FS &  $\pm 1\%$  FS

### Low Pressure



- Range: 0...10mbar to 0...40bar
- Media temperature: -40 to 85°C
- Protection class: up to IP69
- Output: Analog (Current & Voltage)
- Accuracy:  $\pm 1.00\%$  FS, Option  $\pm 0.5\%$  FS

### Mobile Hydraulics



- Range: 0...4000 bar
- Media temperature: up to 150°C
- Protection class: IP67 (option IP69)
- Output: Analog (Current & Voltage)
- Accuracy:  $\pm 0.5\%$  FS, Option  $\pm 0.25\%$  FS

### Intrinsically Safe



- Range: 0...10mbar to 0...2000bar
- Media temperature: up to 150°C
- Protection class: up to IP69
- Output: 4-20mA
- Accuracy:  $\pm 1\%$  FS to  $\pm 0.25\%$  FS

## Differential Pressure



- Range: 0...25bar
- Media temperature: -20 to 100°C
- Output: 4-20mA
- Accuracy:  $\pm 0.5\%$  FS

## Melt Pressure



- Range: 0...1000bar
- Media temperature: 400°C/ 550°C
- Output: Analog (Current & Voltage)
- Accuracy:  $\pm 1\%$  FS, Option  $\pm 0.5\%$  FS

## High Temperature Pressure



- Range: -1...5000bar
- Media temperature: -40 to 200°C
- Output: Analog (Current & Voltage)
- Accuracy:  $\pm 0.5\%$  FS

## OEM Pressure Transducers



- Range: 0...600bar
- Media temperature: -40 to 125°C
- Output: Analog (Current & Voltage)
- Accuracy:  $\pm 0.5\%$  FS, Option  $\pm 0.25\%$  FS

## Submersible/ Level



- Range: 1mWC to 250mWC
- Media temperature: -40 to 85°C
- Output: Analog (Current & Voltage)
- Accuracy:  $\pm 0.5\%$  FS

## Ultrasonic Level



- Range: 4...30m
- Media temperature: -40 to 75°C
- Output: 4-20mA
- Accuracy:  $\pm 0.5\%$  FS

## Radar Level



- Range: 0...70m
- Media temperature: -40 to 120°C
- Output: 4-20mA/HART, RS485/Modbus
- Accuracy:  $\pm 5\text{mm}$

## Hygiene



- Range: 0...100mbar to 0...40bar
- Media temperature: -5 to 80°C
- Output: 4-20mA
- Accuracy:  $\pm 0.5\%$  FS

## Flush Diaphragm



- Range: 0...1000bar
- Media temperature: -40 to 120°C
- Output: Analog (Current & Voltage)
- Accuracy:  $\pm 0.5\%$  FS

## Miniature Design



- Range: -1...5000bar
- Media temperature: -40 to 125°C
- Output: Analog (Current & Voltage)
- Accuracy:  $\pm 0.5\%$  FS

## Pressure Switches



- Range: 0...600bar ( $\varnothing \sim 14\text{mm}$  &  $\varnothing \sim 12\text{mm}$ )
- Media temperature: -40 to 125°C
- Output: NPN or PNP (max. 1 A DC)
- Accuracy:  $\pm 0.5\%$  FS

## Digital Pressure Gauges



- Range: 0...500bar
- Media temperature: -20 to 60°C
- Protection class: up to IP67
- Accuracy:  $\pm 0.25\%$  FS



## FLOW & WATERMETERS

Flowrate is the quantity of fluid passing through a given section of a pipe or the like in a given period. Slentech has a wide choice of flowmeters capable of measuring the flowrate under various conditions.

We are specialized in supplying water meters as measurement solutions for all types of domestic, industrial & irrigation applications.

- |                      |                                   |
|----------------------|-----------------------------------|
| • Pharmaceutical     | • Dairy Plant                     |
| • Beverage           | • Sea water                       |
| • Petrochemical      | • Residential & Commercial Sewage |
| • Water & Wastewater | • Dry gas underground Storage     |
| • Chemical Plants    | • Power Stations                  |
| • Metallurgy         | • Aluminium Smelters              |
| • Paper & Pulp       | • Iron & Steel                    |
| • Food Industry      | • Oil & Gas                       |

## FLOWMETERS

### Oval Gear (PD)



- Suitable for custody transfer
- LPG, kerosene, diesel & crude oil etc.
- Size: 10 to 350mm
- Flow Range: 0.2 to 1000m<sup>3</sup>/h
- Medium Temp: -60 to 260°C

### Double Rotator (PD)



- High accuracy, security & low noise
- Suitable for high viscosity liquids
- Size: 50 to 400mm
- Flow Range: 0.3 to 1800m<sup>3</sup>/h
- Medium Temp: -20 to 250°C

### Coriolis (Mass)



- High accuracy & sensitivity
- Liquids, chemicals, slurry & high-density gas etc.
- Size: 10 to 250mm
- Flow Range: 0 to 2800000kg/h
- Medium Temp: -200 to 200°C

### Thermal (Mass)



- Accurate, durability & low-pressure loss
- Furnace gases, boilers & HVAC etc.
- Size: 15 to 200mm
- Flow Range: 0.6 to 3640m<sup>3</sup>/h
- Medium Temp: -40 to 500°C

### Electromagnetic (Velocity)



- Intelligent, accurate & reliable
- Beverage, petrochemical & wastewater etc.
- Size: 10 to 3000mm
- Flow Range: 0 to 114000m<sup>3</sup>/h
- Medium Temp: -20 to 200°C

### Vortex (Velocity)



- No moving parts & reliable
- Steam, gas, liquid, water & oil etc.
- Size: 10 to 500mm
- Flow Range: 0.4 to 16000m<sup>3</sup>/h
- Medium Temp: -40 to 350°C



### Ultrasonic (Liquid)



- Accurate & high sensitivity
- Water, sea water & sewage etc.
- Size: 15 to 6000mm
- Flow Velocity Range: 0 to  $\pm 30$ m/s

### Ultrasonic (Gas)



- Accurate, reliable & wear-free
- Energy & aluminium smelters etc.
- Size: 25 to 300mm
- Flow Range: 1.84 to 6400m<sup>3</sup>/h

### Ultrasonic (Solar Powered)



- Accurate, high durability & sensitivity
- Water, sewage & beverage etc.
- Size: 15 to 6000mm
- Accuracy:  $\pm 1\%$  RD, Option  $\pm 0.5\%$  RD

### Turbine (Velocity)



- High precision & repeatability
- Oil, gases, metallurgy, paper & pulp etc.
- Size: 4 to 400mm
- Flow Range: 0.04 to 10000m<sup>3</sup>/h

### Sanitary Turbine



- Repeatable, reliable & no-maintenance
- Oil, chemicals, water, food & etc.
- Size: 4 to 200mm
- Flow Range: 0.04 to 800m<sup>3</sup>/h

### Variable Area (Rotameter)



- Ideal for low velocity & flow rate
- Petrochemical, power, food & water etc.
- Medium: Liquid, gas & vapor
- Size: 15 to 200mm

## WATERMETERS

### Multi Jet (Wet)



- Reliable with stable performance
- Residential & Cold potable water
- Size: 15 to 50mm
- Flow Range: 1.5 to 15m<sup>3</sup>/h

### Multi Jet (Dry)



- High sensitivity & reliable performance
- Cold potable water & hot water
- Size: 15 to 40mm
- Flow Range: 2.5 to 10m<sup>3</sup>/h

### Single Jet (Wet)



- Reliable & corrosion resistant
- Cold potable water & hot water
- Size: 15 to 32mm
- Flow Range: 2.5 to 10m<sup>3</sup>/h

### Single Jet (Dry)



- Stable performance & good sensitivity
- Suitable for both cold and hot water
- Size: 15 to 40mm
- Flow Range: 2.5 to 16m<sup>3</sup>/h

### Volumetric (Piston)



- Cold water in residential applications
- Maximum reliability & high sensitivity
- Size: 20mm & 25mm
- Flow Range: 2 to 16m<sup>3</sup>/h

### Woltman



- Industrial, wastewater & Irrigation
- Sensitive, reliable & corrosion resistant
- Size: 40 to 500mm
- Flow Range: 10 to 1000m<sup>3</sup>/h



## TEMPERATURE & HUMIDITY

Temperature & Humidity are the most commonly measured physical parameters in all the industrial, manufacturing, process and laboratory environment. Slentech offers a wide range of temperature (Contact & Non-Contact) and humidity sensors with different operating parameters.

- General manufacturing
- HVAC system
- Building automation
- Food processing
- Pharmaceutical
- Glass industry
- Iron & steel
- Cement industry
- Environmental & Meteorology
- Power plants
- Chemicals & Fertilizers
- Petrochemical
- Automotive & Controlling systems
- Warehousing & Transport
- Process automation
- Factory automation



## TEMPERATURE

### Non-contact IR Pyrometers



- Range: 0 to 3200°C
- Output: Analog, RS-232/485 & Relay
- Laser Pilot Light for precision targeting
- Excellent resistance in harsh conditions
- High accuracy & speed

### Portable & Compact



- Range: -50 to 3000°C
- Output: Bluetooth & USB for mobile/PC
- Focusable precision optics
- Small spot sizes & large data storage
- High accuracy & fast response time

### Thermal-Imager



- Range: -20 to 1800°C
- Output: Digital & Analog
- High spatial & thermal resolution
- Real time imaging
- Durable, robust & high sensitivity

### Handheld Thermal Imager



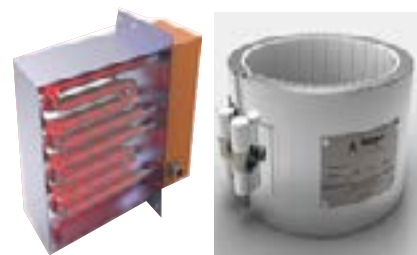
- Range: -20 to 600°C
- USB for images & data transfer
- Accuracy: -2°C/2% (reading)
- Multiple lenses option
- Hot/Cold/Average spot recognition

### Thermocouples & RTDs



- Contact measurement
- Range: -200 to 2400°C
- Corrosion, shock & chemicals resistant
- Accuracy: up to 0.1% FS
- Strong, durable & robust

### Industrial Heaters



- Ideal for various industrial applications
- Range: up to 1600°C
- Ideal for hazardous areas
- Media: Hot air, water, ceramic & gases
- Uniform heating, adaptability & long life

## HUMIDITY & TEMPERATURE

### Economical Transmitters



- Measuring humidity (rh) & temperature
- Suitable for HVAC applications
- Output: Analog & digital
- Operating Temperature: up to 80°C
- Miniature rod-shaped sensor

### Heavy-duty Transmitters



- Operating temperature: -40 to 200°C
- Resistant to pressure up to 25bar
- Compact in stainless-steel casing
- Output: Analog & digital (RS485)
- For ammonia & non-aggressive gases

### Universal Polyga



- Stable, durable & accurate
- Industrial use up to 80°C & 100% rh
- Washable measuring element
- Output: Resistance  $\Omega$
- High-grade steel sensor material

### Allrounders



- Accurate, reliable, precise & robust
- Operating temperature: -40 to 85°C
- Humidity measuring range: 0...100% rh
- Output: Analog & digital
- Industrial & meteorological applications

### Electronic Humidistats



- Flexible allrounders for humidity
- Display, relay & analogue outputs
- Temperature compensation & IP65
- HVAC, building & process automation
- Transport, energy, agricultural & food etc.

### Handheld Humidity



- Simple & robust design
- Reliability & high quality
- Scale range: 30...100% rh
- Room & duct version
- Washable measuring element

## TEMPERATURE DISPLAY & RECORDERS

### Digital Indicators



- Multiple input signals
- Display accuracy:  $\pm 0.1\%$
- Bright viewing angle LCD 5-digit
- More programmed control modes
- Various output options

### Handy Loggers



- 10,000 data per channel
- Four channels of measuring value
- Input types: TC, 0 to 5V & 0 to 20mA
- Multiple calculation functions
- IP64 dustproof & drip-proof

### Graphic Recorders



- Paper-less high-speed recording
- Accuracy:  $\pm 0.1\%$
- Colour trend, bar graph & data display
- Input: DC voltage, TC & RTDs etc.
- Continuous long-term recording





## PNEUMATIC CONTROLS

Slentech is a leading supplier of precision pneumatic & electro pneumatic control products with an excellent reputation of high performance & quality. Our quality products assure tightly controlled specifications & processes, resulting in high performance & dependable pneumatic controls and compressed air pressure regulator applications.

- Automated industrial equipment
- Process control systems
- Laboratory research & analysis
- Energy management
- Fluid power
- Robotics

- Medical
- Valve Actuation
- Paper & Pulp
- Oil & Gas
- Marine Offshore
- Food Processing

### Air Pressure Regulators



- High resolution, accuracy & repeatability
- Max. flow (up to): 5 to 400 scfm
- Sensitivity: 3 – 50 mm
- Max. supply pressure: 150 - 290 psig
- Max. output pressure: 100 - 200 psig

### I/P & E/P Transducers



- Compact, accurate & economical
- Max flow (up to): 2.4 to 12 scfm
- Sensitivity: 0.1% & 0.6%
- Max. supply pressure: 100 -150 psig
- Pressure range: 0 -120 psig

### Explosion Proof I/P Transducers



- Stable & insensitive to shock/vibration
- Max flow (up to): 12 scfm
- Linearity: 0.5% & 0.1% of the span
- Max. supply pressure: 100 psig
- Pressure range: 3 - 30 psig

### Valve Positioners



- Pneumatic & Electropneumatic
- Rotary, linear, single & double acting
- Insensitive to vibration & position
- Quick & accurate
- Max. supply pressure: 145 psig

### Volume Boosters



- Suitable for diaphragm & piston actuators
- Max. supply pressure: 150 – 250 psig
- Flow capacity: 50 - 400 scfm
- Signal to output ratio: 1:1, 1:2, 1:3 & 1:6
- Sensitivity: 6.4 mm

### Air Relays



- Corrosion resistant & high relief capacity
- Flow capacity: 14 scfm
- Sensitivity WC: 3.2 mm
- Max. supply pressure: 150 psig
- Output pressure range: 2 - 120 psig

## TRUSTED BRANDS

ACUITY



MESSOTRON



KYOWA



ASC SENSORS



AERON SYSTEMS



ADZ NAGANO



NAGANO KEIKI



TEMPSENS



AST



CHINO CORPORATION



GALLTEC+MELA



OVAL CORPORATION



NWM



CONTROL AIR



PREDIG



MONTWILL



## SUPPORT & SERVICES

### Industrial Automation Solutions

Slentech provides system integration in control automation and instrumentation in variety of industrial applications. We provide support for integration of test and measurement equipment:

- Support for software-based creation of measurement projects
- Technical advice for mechanical sensor integration
- Targeted support for integration of instruments in your control systems such as SCADA / PLC / MES and ERP systems.



### Process Control Solutions

- We offer expertise in general Process Control Engineering, System Automation Support and Calibration services.
- Our Production and Operational Efficiency Audits can assess, justify and present the return that you should expect from your existing system as well as being able to provide the best possible case to assist you to obtain approval to proceed with prospective new projects. The Audit will examine current working practices, systems and procedures within the production process that can influence production and/or operational efficiencies.
- To optimize Overall Equipment Effectiveness (OEE), we offer a powerful dedicated OEE management capability 'beyond the spreadsheet' that provides the foundation to measure, monitor and improve your OEE, enabling you to discover your production loss structure, convert losses to profits, cost justify improvements and monitor them to resolution.

The background features several overlapping diamond-shaped elements. A large orange diamond is positioned in the center-left, containing contact information. To its right and above are blue diamonds. The background is also composed of various industrial images: a close-up of large black pipes in the top right, a refinery with tall distillation columns in the middle right, a robotic arm in a factory setting in the bottom left, and a tall industrial chimney in the bottom right.

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