OVERVIEW

Pinnacle Instruments focuses on providing field instrumentation solutions that are engineered to provide reliable and sustainable long term measurement and control of our customer’s manufacturing processes. We have achieved this by selecting to only partner with manufacturers that are world leaders in their particular area of process measurement and control. The resultant process solutions that are engineered in collaboration with our partners therefore offer equipment that has a proven track record, is specially selected and guaranteed to be the correct solution for the application resulting in a long term return on investment and low cost of ownership for our clients.

COMPANY PROFILE

Pinnacle Instruments has offices in Cape Town and Johannesburg which provide service to industry throughout South Africa and our neighbouring countries including, Namibia, Botswana, Swaziland, Mozambique, Angola, Zambia, Zimbabwe and Madagascar. Pinnacle Instruments partners with local companies to provide customer liaison and support within all of these areas.

CAPE TOWN
Telephone: +27(0)21 706 3963
Fax: +27(0)21 706 4123
Email: sales@pinnacleinstruments.co.za
Website: www.pinnacleinstruments.co.za

JOHANNESBURG
Telephone: +27(0) 11 450 4885
Fax: +27(0) 11 450 4887
Email: ads@pinnacleinstruments.co.za
Website: www.pinnacleinstruments.co.za

PRODUCT CATALOGUE

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FLOW METERS

Positive Displacement Flow meter

OVERVIEW
Multipulse PD flow meters utilise the widely accepted oscillating piston design principle with the performance enhanced by the use of modern engineering materials to provide a cost effective and reliable solution for a wide range of industrial flow measurement applications.

Insertion Paddle Wheel

OVERVIEW
The Dualpulse insertion flow transducer is an innovative design combining well proven technology with the performance enhanced by the use of modern engineering materials to provide a cost effective and reliable means of measuring the flow of a wide variety of low viscosity of liquids.

Turbine Flow meter

OVERVIEW
Turbopulse turbine flow meters are precise, reliable and robust units for the volumetric flow measurement of clean low viscosity liquids. Stainless steel construction with tungsten carbide bearings provides long life with a wide range of aggressive and non-lubricating liquids in petrochemical and general industrial applications.

Rate and Totaliser meter

OVERVIEW
The RT100 flow rate totaliser has been specifically designed to operate with common pulse producing flow meters such as positive displacement, turbine and paddle-wheel sensors, without the need for external power.

Averaging Pitot Tube

OVERVIEW
Averaging pitot tube principal of differential pressure flow measurement. Accuracy of actual value +/- 1%. 99.9% repeatable. Superior strength provided by 2 D shaped measuring tubes inside a third exterior tube making it virtually unaffected by vibration and bending forces generated by flowing fluid velocity.

Coriolis Mass flow Meter

OVERVIEW
The RHM 015 has been in production for many years and is available in a wide range of varying models. The meter has been optimized for applications which have extremely low flow conditions. As with all other Rheonik meters, this model is based on the patented Omega tube design with increased signal to noise ratio.
Mass Flow and Electronics

OVERVIEW (RHE 01)

For use in safe area
Pulse output (free scalable via rotary switches)
Power consumption: < 15 W
Temperature range: -40 to +60°C
Protection class: IP 54
Available in all common supply voltages
Fast response version (60 ms) for batching applications available
Modular space part concept allows easy and quick repair if ever necessary

OVERVIEW (RHE 07)

Rack mounting version
Allows to operate flow sensor in hazardous area, optional:
ATEX Approval Ex II 1 (1) G [Ex ia] IIC or CSA 220705
2 analog outputs (0/4 - 20/22 mA)
1 pulse/frequency output
Available in all common supply voltages
Multifunctions (density, batch, brix, concentration...)
Version available with RS 422/485 ..
Protection class: IP 20
Power consumption: < 15 W
Temperature range: -40 to +60°C
NMI custody transfer approved version available (TC 3382) with double pulse
The RHE 08 output

OVERVIEW (RHE 12)

Compact version
Designed to be installed in hazardous areas ATEX Approval, Ex II 2 (1) G, EEx d [a] IIC T6 CSA pending
1 analog output
1 pulse output
Power supply: 24 VDC / 85-230 VAC optional
HART interface
Protection class: IP 66
Power consumption: about 7 W
Temperature range: -20 to +55°C

ELECTROMAGNETIC FLOW METERS

Flanged Meters

OVERVIEW

DN15 to DN 2000
PN16 to PN64 / ANSI600
0.2% Accuracy
Temperature range: -25 to 200°C
Protection class: IP 54
Available in all common supply voltages
Fast response version (60 ms) for batching applications available
Modular space part concept allows easy and quick repair if ever necessary

Sanitary Meters

OVERVIEW

DN25 to DN 100
PN10 to PN40
0.2% Accuracy
DN11851, Triclamp, SMS
Temperature range: -25 to 130°C
Wafer Meters

**OVERVIEW**
DN25 to DN 300
PN10 to PN40
0.2% Accuracy
PBT/DTFE Lines

Insertion Meters

**OVERVIEW**
Threaded or Flanged DN80 to DN 4000
3% Accuracy
PN10 to PN25
IP68/67
316 Stainless Steel

Overview Electronics

**OVERVIEW**
Battery powered electronics
Integral or remote mount
Indication of rate & total, IRDA connectivity
4-20mA & pulse output
GSM, GPRS connectivity
Modbus on R5485 digital communication
Accuracy 0.2%

Small Meters

**OVERVIEW**
DN3 to DN20
PN16
0.2% accuracy
Stainless steel & PTFE
-25 to 130°C

ULTRASONIC FLOW METERS

Wall Mount Meter

**OVERVIEW**
DN15 to DN6000
Flowrate, Velocity & 4 totalisers
Transit Time Technology
IP65
4-20mA, Pulse output, 4 relays
Data logger 2000 lines
220V AC / 24V DC Supply
Hand Held Meters

OVERVIEW
DN15 to DN6000
Flowrate, Velocity & 4 totalisers
Transit Time Technology
IP67
Data logger 2000 lines
Rechargable Battery

Portable Meter

OVERVIEW
DN15 to DN6000
Flowrate, Velocity & 4 totalisers
Transit Time Technology
IP67
Data logger 2000 lines
Rechargable Battery

LEVEL

RF Admittance Level

OVERVIEW
Particularly well suited to difficult applications. Point Level (ON/OFF) measurement indicates the absence or presence of level at a certain threshold (point) within a vessel. Point level switches are used as high level and spill prevention alarms, low level and pump protection alarms, and to turn final control elements on and off.

Vibrating Fork

OVERVIEW
The TF-100 Series vibration technology level switch is an excellent choice for most high or low-level liquid level measurement requirements. The TF-100 requires no calibration and is not affected by changes in electrical properties of the material being measured.

Ultrasonic Level Switch

OVERVIEW
Ultrasonic gap switch for liquids. Drexelbrook's VeriGAP ultrasonic gap switch provides reliable high or low-level measurement in a wide variety of liquids. The VeriGAP requires no calibration and is not affected by changes in electrical properties of the material being measured.
Conductive Level Switch

OVERVIEW

Industry Type:
- Chemical and Petrochemical Industry
- Food and Beverage Industry
- Pharmaceutical and Biotechnical Industry

Potentiometric

OVERVIEW

Industry Type:
- Chemical and Petrochemical Industry
- Food and Beverage Industry

Measurement ranges: -20...140 °C
Operating pressure: max. 10 bar
Type of protection: IP67
Connecting head / Material: Head ø89 mm, W1.4301 (AISI304) Wetted Parts, W1.4404 (AISI316L)
Output signal: 4...20 mA

RF Admittance

OVERVIEW

Continuous Level (Proportional) measurement indicates the level in a vessel over the full span measurement. These devices are typically used for process control, inventory control, and management.

Universal Lite
Universal III
True Level

Radar

OVERVIEW

The new DR7000, an FMCW 26 GHz radar, offers state of the art design. The DR7000 is able to operate over a 2 GHz bandwidth: this ensures sharper resolution and higher accuracy. The higher signal dynamics of the DR7000 allow the accurate detection of even the smallest level changes. The DR7000 is a-wire device with easy navigation display and touch screen interface, which allows for easy configuration and set up. State of the art signal processing and a large bandwidth allow the DR7000 to determine the true level in the tank, even with agitated surfaces. Airborne Level Radar Systems

Magnetostrictive

OVERVIEW

Magnetostrictive Level Measurement System takes field proven sensing technology and incorporates intrinsic safety with a field programmable zero and span. Packaging is our patented low clearance design, making the DM330 ideal for level monitoring in a variety of liquids and tank designs.

Two Variations - Sensors are available in rigid 316SS or flexible PVDF designs. The stainless steel version has a choice of a mini-connector or an optional housing which includes terminal connectors with zero and span adjustments. All offer totally welded construction.
A new family of ultrasonic technology products offers a 2-wire and line powered version for non-contact level measurement of liquids and slurries for level, distance, volume and open channel flow.

The SLM300C /800C /990C is a highly developed ultrasonic level measurement system, which provides in non-contacting level measurement for a wide variety of applications in liquid and solid.

The unit is designed for mounting above material level being measured. It offers the integral nose thread allowing a screw-fit of flange fit to tanks or mounting-brackets. 4 LED display enables highly accurate measurement monitoring.

The SLM600 Series is a high developed ultrasonic level measurement system, which provides non contacting level measurement for a wide variety of applications.

The SLM600 Series operates on the principle of timing the echo and utilizes state of art echo extraction technology.

Two switched output NPN open collector, with fully programmable setting points are provided in the 2 wire version, together with fault condition being indicated by mA output on both 2 and 3 wire version.

The SONDAR SLM800S, 1200S and 1500S are highly developed ultrasonic level measurement for a wide variety of applications in liquid and solid.

The SLM1000 Series consists of micro-processor based controller and sensors that can be mounted up to 8m, 12m and 15m respectively according to field requirement.

Industry Type
- Chemical and Petrochemical Industry
- Food and Beverage Industry
Measurement ranges: -20...140 °C
Operating pressure: max. 10 bar
Type of protection: IP67
Connecting head / Material: Head ø89 mm, W1.4301 (AISI304) Wetted Parts, W1.4404 (AISI316L)
Output signal: 4...20 mA
Pressure Gauges

OVERVIEW
Measurement of negative pressure, compound pressure: -1 ... 0 bar to -1 ... + 24 bar
Pressure Measurement: 0 ... 16 mbar to 0 ... 4000 bar
Diameters: 40mm to 160mm
Accuracy class: 0.6 - 1.6 or 2
Sensing element and process connection: bronze, stainless steel, Monel, Hastelloy, etc.
Anti-vibration system for some models
Compliant with European standard EN837

Chemical Seals

OVERVIEW
Very wide choice of materials and coatings: Stainless steel, Monel, Hastelloy, Tantalum
Chemical seals for mounting with pressure gauges - pressure switches - pressure transmitters
Measuring ranges: - 1 ... 0 to 0 ... + 1000 bar
Fluid temperature:- 60° to + 200°C
Ambient temperature: -40°C to + 90°C
Mounting on ISO or ANSI flanges - flush diaphragm

Pressure Transmitter

OVERVIEW
Measurement of negative pressure, compound pressure:-1 ... 0 bar to -1 ... +39 bar
Pressure measurement (relative or absolute): 0 ... +25 mbar to 0 ... +1800 ba
Technologies: TRANSBAR, thick ceramic film, capacitive ceramic, thin film, bonded gauges
Excellent long-term stability
Output signals: 0-10 Volts, 0-5 Volts, 1-5 Volts, 0-20 Volts, 0-20 mA, 4-20 mA
Fail-safe & explosion proof versions
Compliant with EC standards

Pressure Switches

OVERVIEW
Design guarantees high level of reliable and resistance to severe environmental conditions
Wide choice of microswitches with set or adjustable deadband
Available in all stainless steel, intrinsically safe of explosion-proof versions
Measurement of all types of corrosive or non-corrosive fluids
Measurement of negative pressure and compound pressure: -1 ... 0 bar to -1 ... +3.5 bar
Pressure measurement: 0 ... + 50 mbar to 0 ... + 600 bar
Very high resistance to overpressure
Excellent repeatability: ± 2% of the measurement range
Test & Calibration

OVERVIEW
Calibration gauges
- Diameter 150 and 250mm
- Accuracy up to ±0.1% of the measurement range
- Measurement ranges: -1 ... 0 bar to 0 ... +4000 bar
Portable high-precision electronic pressure calibrators
- Accuracy from ± 0.25% of measurement range to ±0.025
- Measurement range: -1 to + 700 bar
Pressure generator and water, air or oil dead weight tester
- -0.9 bar to + 4000 bar
- Accuracy class 0.03 to 0.01
Portable programmable calibrators for temperature and/or process electrical variables
- Gradient generation
- Alarm contact output
- RS232 link analogue output
- Programming by PC with specific software
- Compliant with CE standards

Temperature Gauges

OVERVIEW
Gas thermometers, bimetallic thermometers - thermo-resistor probes (RTD) (coils or thin film) - thermocouples
- Temperature transmitter: 4-20 mA, HART AND PROFIBUS protocols
- Measurement accuracy up to ±0.01% for thermo-resistors and ±0.5% for thermocouples
- Measurement ranges: -200°C to + 1820°C
- Probe diameter up to 0.35 mm
- Thermowells made of stainless steel, special alloys or ceramics
- 2 - 3 or 4-wire (Pt 100) electrical connection
- Large choice of connection heads

Temperature Switches

OVERVIEW
Design guarantees high level of reliable and resistance to severe environmental conditions
- Wide choice of microswitches with set or adjustable deadband
- Available in all stainless steel, intrinsically safe of explosion-proof versions
- Measurement of all types of corrosive or non-corrosive fluids
- Measurement range: -46°C to + 350°C
- Very high resistance to accidental high temperatures
- Transmission capillary up to 20 meters
- Excellent repeatability: ± 1% or ± 2% of the measurement range

TEMPERATURE
**Test & Calibration**

**OVERVIEW**

This high performance portable thermostatic air furnace is designed for verifying temperature measuring instruments by comparison, in the laboratory or on site, within range of ambient temperature to +550°C for the standard version (+600°C option with special heating block).

The PULSAR oven is based on a compact and robust mechanical design, with proprietary instrumentation and control, providing excellent stability and other useful functions such as measurement of an external reference probe, RS232 serial interface, gradient and contact test.

**PROCESS**

**Canty Process**

**OVERVIEW**

J.M. Canty cameras are patented systems designed to illuminate and view inside a pressure or process vessel through a single connection. There is no need for multiple vessel ports. Canty supplies an integrally mounted camera and lighting system (optional) in a connection as small as a 2” NPT. The industry standard video output can be displayed on a video monitor in the comforts of a control room, or recorded on any VCR. A standard video monitor or TV with video input may be used to display the image.

**High Temperature**

**OVERVIEW**

Canty High Temperature Cameras are ideal for demanding applications involving visual inspection or verification in extreme temperature environments.

**Mintemp High Pressure**

**OVERVIEW**

Canty Minitemp™ camera systems are a low cost, low maintenance, portable alternative to traditional high temperature cameras. Our unique design allows the unit to be easily moved from location to location in just minutes.

**Process Microscope**

**OVERVIEW**

The Canty Process Microscope Camera is a high speed system that captures and displays live video images for blur-free, flicker-free pictures.
Vector NT

OVERVIEW
The Vector System with CANTYVISIONCLIENT™ Software uses the live video data from a CantyVision System and software to measure and control your process parameters.

HFuseview™

OVERVIEW
J.M. Canty Fuseview™ sight glasses have been engineered to meet all your process and safety needs. Fuseview™ Tri-clamps® are a fused sight glass providing one-piece construction with no additional gaskets or torquing required. All standard Tri-clamp® Fuseviews™ feature Factory Mutual approval and were designed and tested to ensure the safest product available. Canty can provide certification of material and testing if required, typical of ASME code requirements for process vessels.

HFuseview™ Tri-Clamp

OVERVIEW
J.M. Canty Fuseview™ sight glasses have been engineered to meet all your process and safety needs. Fuseview™ Tri-clamps® are a fused sight glass providing one-piece construction with no additional gaskets or torquing required. All standard Tri-clamp® Fuseviews™ feature Factory Mutual approval and were designed and tested to ensure the safest product available. Canty can provide certification of material and testing if required, typical of ASME code requirements for process vessels.

Jet Spray

OVERVIEW
The Jet Spray Ring was originally designed to eliminate bothersome PVC build-up on sightglasses and used in the manufacture of heat shield tile epoxy for the US space shuttle program. Since its original conception, the spray ring has been used on many applications in the pharmaceutical, chemical, petro-chemical and dairy industries.

HYL Series 50W, 80W Fiber Optic Flex Bundle

OVERVIEW
Canty fiber optic lighting systems have been designed to provide efficient, high output tungsten-halogen light in a cost effective package. Conventional methods of lighting through a sightglass are ineffective since a majority of the light is reflected off of the sightglass. Canty uses only high quality, flexible fiber optic light pipes to fiber-optically guide the light from our light source through a sightglass or process connection. The light is elliptically focused into the fiber optic light pipe and guided through the sightglass, minimizing losses while maximizing your tank or vessel lighting!
Gauge Glass

OVERVIEW
Canty Gauge Glass Lighting Systems are designed to illuminate liquid level gauges and tubular sight flows. The solid flex bundle is attached directly to the tube glass, and high intensity light passes through the liquid, strongly emphasizing the liquid level. Units are designed for use in harsh environments.

HYL Series 50W, 80W Process

OVERVIEW
The HYL 50 and HYL 80 lights are designed to illuminate pressurized, irradiated or isolated areas. The HYL lighting package provides a compact, cost effective lighting system. Our patented design allows for an intense beam of light to cross the pressure/process boundary. Once across, the beam can be diffused to produce conical light outputs of 30° (normal beam) or 90° (wide beam). The HYL light can mate with a variety of couplings, including flanged, sanitary and NPT connections.

SIGNAL

SST - 200 / SST - 220

OVERVIEW
The SST-200 is one of the most advanced, user-friendly and powerful, smart 2-wire transmitters. The state of the art micro-processor design combines simplicity, precision and ruggedness to produce a unique product suitable for industrial measurements in countless applications.

SST 300

OVERVIEW
The SST-300 is one of the most advanced, user-friendly and powerful, smart 2-wire transmitters. The state of the art micro-processor design combines simplicity, precision, and ruggedness to produce a unique product suitable for industrial measurement in countless applications.

SST 270

OVERVIEW
The SST-270 is a smart, state of the art, IP based, frequency/Pulse input, Flow-Rate 2-wire transmitter. It incorporates advanced circuitry and firmware including user defined 16-point linearization capability, which enables it to provide a high degree of precision performance and user flexibility in industrial flow measurement applications.

The SST-270 is a member of Mescon's advanced user friendly and high-precision, line of industrial, process measurements line of 2-wire transmitters. Custom versions are available for special purpose and OEM applications.
Series T26

OVERVIEW

Series T26 represents a new concept for high AC current measurements. The new units combine the reliability of high precision high capacity current-transformers with the proven performance of Mescon's AC input 2-wire transmitters. The T26 offer a coherent industrial solution to current measurement problems of up to 1000A. The output is a linear current loop, 4-20mA which is proportional to the electrical current flowing through the T26 core.

Model 20/6

OVERVIEW

The model 20/6 is a precision, loop powered 2-wire transmitter with galvanic isolation between its input and the current-loop output signal. The 20/6 provides the necessary circuitry for amplification, rectification and processing of AC Current or Voltage signals from various sensors and signal sources. An optional LCD display is available on the 20/6 to indicate the output in Engineering Units.

EP Series

OVERVIEW

The EP series is a high accuracy family of electrical parameter measurement instruments featuring full galvanic isolation. The entire series is available as a two wire loop powered transmitter or a four wire AC or DC powered signal conditioning units.

The EP series inputs and outputs can be easily configured without requiring special tools or board modifications. AC conversion is performed using either full wave rectification or via true RMS methods.

MESTEC 700C

OVERVIEW

The MESTEC-700 is a multi-channel process monitor/alarm, displaying up to 10 T/C, mV or mA inputs or up to 6 channels of RTD inputs. Each channel may be assigned up to 2 set-points for a total of 20 set-points. Alarm conditions are indicated via dual color LEDs. In addition, 2 dry contact relay outputs are provided to facilitate trip and control functions.

MESTEC 1150

OVERVIEW

Mescon's MESTEC-1150 is the world's only Loop-Powered dual set-point limit-alarm. It combines the current loop self energizing operation with LED status indication. The dual independent set-points provide relay contact closure. The Green, Yellow and Red LEDs provide loop signal status indication. The 1150 operates in series with a 4-20mA current-loop signal without the need for any external power source.
Series Spin 600

OVERVIEW

The SPIN.-600 is one of the world's most advanced user-friendly and powerful family of industrial transmitters and signal conditioners. State-of-the-art µprocessor design combines simplicity, precision and ruggedness to produce unique instruments suitable for a multitude of precision industrial measurement, alarm and control functions in countless applications. The hardware and software building blocks provides the SPIN.-600 with the flexibility to adapt to a large variety of applications.

EP Series

OVERVIEW

The EP series is a high accuracy family of electrical parameter measurement instruments featuring full galvanic isolation. The entire series is available as a two wire loop powered transmitter or a four wire AC or DC powered signal conditioning units.

MODEL 20/1

OVERVIEW

The model 20/1 is a precision, loop powered 2-wire transmitter with galvanic isolation between its input and the current-loop output signal. It provides the necessary circuitry for amplification and linearization of signals from RTD sensors. The input circuit can accept 2 or 3 wire RTD's for either a direct or a differential temperature measurement. An optional LCD indicator is available to indicate actual temperature in °C or °F.

MODEL 20/2

OVERVIEW

The model 20/2 is a precision, loop powered 2-wire transmitter with galvanic isolation between its input and the current-loop output signal. It includes the necessary circuitry for amplification and processing of signals from Thermocouple sensors. The input circuit can accept all types of Thermocouples and provides the ice point reference compensation. Model 20/2L also provides input linearization to correct for the inherent Thermocouple non-linearity. An optional LCD indicator is available to indicate actual temperature in °C or °F.

Thermocouple, Pt-100 RTD & mV

OVERVIEW

The Mescon TH-12U is an isolated, 2-wire temperature and mV transmitter designed to fit in a standard industrial thermal-head. The new design makes the TH-12U the smallest of its kind, while maintaining all of the features Mescon's Universal Temperature Thermal-Head Transmitters.
Series PTH-400

OVERVIEW
The Mescon PTH-400 series is a unique PC-programmable 2-wire transmitter family. The units feature a state of the art micro-processor based design which enables full configuration with Mescon's JUST-PC Technology using the MESCONfigurator, user friendly configuration software. This combination eliminates the need for jumpers, calibrators, screw-drivers and hand-held programmers. The PTH-400 is the thermal head version of an entire family of products. Other JUST-PC technology instruments are available for field mount, high density DIN rail and low density DIN rail with display applications.

Series PDT-400

OVERVIEW
The Mescon PDT-400 series is a unique PC-programmable 2-wire transmitter family. The units feature a state of the art micro-processor based design which enables complete configuration with Mescon's JUST-PC™ Technology using the MESCONfigurator™, user friendly configuration software. This eliminates the need for power supplies, calibrators, screw-drivers, wires, jumpers and hand-held programmers. The PDT-400 is the DIN rail mounted version of an entire family of products. Other Just-PC technology™ instruments are available for thermal-head, field-mount, high density Din rail and Digital display applications.

Model UTI/1, UTN/1

OVERVIEW
The UTI/1 is a precision Field Mounted loop-powered 2-wire transmitter with galvanic isolation between its input and the current loop output signal. It provides the circuitry for the excitation, amplification and linearization of signals from RTD sensors. The input circuit can accept 2 or 3-wire RTDs for either a direct or a differential temperature measurement. Specially designed circuitry provides excellent protection from external EMI/RFI sources.

Model UTI/2, UTN/2

OVERVIEW
Model UTI/2 is a precision loop-powered 2-wire transmitter with galvanic isolation between its input and the current loop output signal. It includes the necessary circuitry for the amplification and processing of signals from Thermocouple sensors. The input circuit can accept all types of Thermocouples and provides the ice point reference compensation. Specially designed circuitry provides excellent protection from external EMI/RFI sources.

The Universal 2-Wire Transmitters

OVERVIEW
IQ series is the world's first 2-wire 4-20mA analog transmitter to offer a combination of selectable input and multiranging capabilities in a single DIN rails mounting instrumentation package.
ISOTEC

OVERVIEW
ISOTEC® current loop isolators accept any standard current loop signal from 0 to 50mA and reproduce an identical and isolated output current with a high degree of precision and superb stability. The ISOTEC® units require a very low voltage drop and have excellent immunity to load variations. The units are housed in a rugged Aluminum enclosure with special circuitry that provides superb RFI immunity.

ISOTEC-4 (H)

OVERVIEW
ISOTEC® series current loop isolators accept any standard current loop from 0 to 50mA and provides an identical isolated duplicate signal output with high precision and stability, with a minimum voltage drop and high immunity to load and load variations. In addition, the ISOTEC®-4 (H) includes a DC/DC converter which provides isolated power for a transmitter and enables bidirectional through path for digital (HART® protocol) communications.

ISOTEC-2, ISOTEC-3

OVERVIEW
ISOTEC® series current loop isolators accept any standard current loop from 0 to 50mA and reproduce an identical and isolated duplicate signal output or a zero base voltage output (ISOTEC®-3) with a high degree of precision and stability, a minimum voltage drop, and a high immunity to load and load variations. The units are housed in a narrow DIN rail plastic enclosure which facilitates high density installation in multi-channel applications.

ISOTEC-5 SERIES

OVERVIEW
Isotec-5 is a member of Mescon’s growing family of loop isolation products. It is designed to duplicate current loop signals or convert standard voltage signals, while providing galvanic isolation, at very low loop burden and high load drive capabilities. The Isotec-5 is housed in a slim DIN rails mounted, very high-density enclosure. As such it is suitable for applications requiring multiple isolating channels at low systems costs.

MESTEC 2-2-2

OVERVIEW
MESTEC 2-2-2 is a unique isolation barrier. When properly applied, it converts the (4-20mA) non-isolated transmitter (NIT) current loop into a fully isolated one with no field wiring change and without altering the current loop output characteristics. The 2-2-2 provides 1.5KV of primary-loop to output-loop isolation and eliminates ground loops which could be caused by non-isolated sensors and transmitters as well as by multiple instrument wirings.
VISCOSITY

PLC Control Systems

OVERVIEW

The VISC6000 Viscosity Control System is a simple, low cost, and dependable viscosity control system for monitoring and controlling printing inks, lacquers, adhesives, mirror coatings, wire coatings, can coatings, needle coatings, chemicals, and other applications. The VISC6000 viscosity control system can be used with any Norcross viscosity sensor.

MP 2000 Series

OVERVIEW

The single channel MP2000 Viscosity Controller is compatible with all Norcross Measuring Elements. The compact size and simplicity of the MP2000 enable simple multiple unit installation.

MP 2500

OVERVIEW

The single channel MP2500 Viscosity Controller is compatible with any Norcross Measuring Element. Its compact size and economical pricing provide attractive multiple installations in configurations for two to eight or more stations. As a testimony to our equipment and support, we have many viscometers that have been in continuous service for over 25 years.

Tank Mount pH Control System

OVERVIEW

The sensor tip is connected to a transmitter, by means of a plastic pipe with internal wiring. The transmitter converts the native pH probe signal into a 4-20madc signal. A signal suitable for transmission to the remotely mounted MP2000pH controller.

Shell Cup

OVERVIEW

The Shell Cup is a simple, reliable device for measuring the viscosity of a wide range of fluids. Originally developed for use with printing inks, it has found widespread applications as diverse as fuel oil and industrial finishes — for calibrating other viscosity sensors as well as for primary measurements.
M8B

OVERVIEW
The sturdy measuring tube will support tank depth up to 72”.
Used in solvent-based application such as starch, paints, coating, and
epoxy.
The piston rod assembly is enclosed inside the support rod, and the
fluid intake is at the bottom of the support rod.
Works under atmospheric pressure.
Flushing tube in the upper portion is connected to a pressurized solvent
supply via a manually operated valve that allows for flushing of the
inside of the tube during washdowns.
Optional circulating holes are furnished for applications not involving
volatile solvents to permit free passage of liquid throughout the tube to
prevent liquid from drying and building up inside the tube.
It can be used with Norcross Viscosity Controller MP2000/MP2500 or
VISC6000.

M20

OVERVIEW
Versatile mounting options such as on the top, side or bottom of a
chemical reactor and into a tee or elbow of a pipeline.
It can be used with Norcross Viscosity Controller MP2000/MP2500 or
VISC6000.

M50

OVERVIEW
The M50 mounts directly in the ink/coating line. Placement in a
sidestream is not necessary.
Can be used with either solvent or water-based applications, such as
printing ink (Flexographic and Rotogravure), glue, and adhesives.
The falling piston principle of operation provides automatic self
cleaning.
The ‘true’ in line mounting insures flushing of the sensor whenever the
ink fountain is being cleaned.
The M50 is easy to open for inspection.
It can be used with any Norcross Viscosity Controller, such as the
MP2000, MP2500 or VISC6000.

MFBO

OVERVIEW
Operates like the M8BO, this model is CE approved and intrinsically
safe.
This sensor is good for open tanks between 10” (254mm) and 24”
(610mm) deep.
It can be used in water-based and solvent-based applications, such as
printing (Flexographic and Rotogravure), glues, and adhesives.
Works under atmospheric pressure.
The exposed piston rod and cylinder enables operators to observe its
operation.
Removable wetted parts and open rod construction allow easy cleaning.
The MFBO is compatible with the MP2000, MP2500 or VISC6000
Controller.
CM-3

OVERVIEW
The CM-3 Cut Monitor is a "Smart" Cut Monitor. It monitors the efficiency of oil/water separation vessels by measuring the percentage of water in oil. With its precise indication of water percentages from 0 to 50%, the CM-3 Cut Monitor can be used to indicate the effectiveness of wash tanks, freewater knockouts, heater treaters, and other separation vessels.

IntelliPoint RF Series

OVERVIEW
Eliminate Costly Plugged Chutes Downtime is expensive and so is the clean up of process spills. Reliable detection of plugged chutes will keep your plant running smoothly and virtually eliminate spills that occur because of plugged conditions.

Conductivity Transmitter

OVERVIEW
The ISL05x is a sensor for inductive measurement of conductivity. The compact design in all stainless steel enables installation in pipes from DN40 and upwards.

Precise, configurable temperature compensation and remote setting of the four pre-configured measuring ranges make the ISL ideal for a wide range of conductivity measurements.

Ash Eye

OVERVIEW
The new Ash Eye is a much improved instrument based upon the previous Bretby Gammatech Natural Gamma Coal Quality Monitor (NGCQM). It is a non-contacting, fully on-line ash monitor providing second-by-second information on the ash content of conveyed coal.

The Ash Eye contains no radio active sources as it uses Natural Gamma Technology.

The Ash Eye incorporates a new and improved algorithm leading to greater consistency in ash measurement.
Ash Probe

OVERVIEW

The Ash Probe is a hand portable instrument for measuring the ash content of piles, wagons or trucks of coal. It provides the user with ash readings within seconds. It contains no radioactive sources.

The latest version has the Display Unit housed in a new carry case incorporating a shoulder strap and removable lid. These new features make the Ash Probe even easier to use in the field.

The internal configuration of probe has also been updated which has improved its robustness. The software has recently been updated to enable "Pile Mode" or "Truck Mode" operation. With these new modes the user is lead through the appropriate operation without needing to remember what buttons to press. There is also a "Calibration Mode".

Pile Mode is suitable for piles that may need many probings. For growing piles data can be added to at any time. Truck Mode is suitable for Truck (Wagon or Lorry) deliveries where a relatively small number of probings is required (<12) and once completed the data cannot be added to.

Gamma Eye - Bucket

OVERVIEW

The Bucket Monitor provides a quick assessment of the bulk gamma contamination of excavated material within the bucket of a mechanical digger. This instrument contains a large scintillation crystal which is mounted within a substantial frame. The sensor is pre-calibrated for the contamination isotope of interest and can be set to alarm for discrete activity bands.

The driver of the mechanical digger rests the bucket containing the excavated material on the frame and after a few seconds it provides him with a visual indication of the level of gamma contamination in the bucket. This indication is provided by a traffic light system - red, amber and green denoting the band within which the gamma contamination occurs. On the basis of this information the driver deposits the load in the appropriate place for subsequent disposal or processing. During operation no personnel are required to take meter readings which is a key safety feature. Once calibrated the 'Bucket Monitor' is very simple and rapid to use.

No specialist nucleonic knowledge is required by the operator. The driver simply observes and acts upon the traffic light indications. He does not even need to activate the counting process as the instrument automatically senses when the bucket is correctly positioned. This instrument has already found applications at five different sites.
Gamma Eye - Belt

OVERVIEW

The Gamma Eye is a fully on-line system providing a continuous assessment of the gamma activity of a conveyed load. In this instrument a large scintillation crystal is mounted over the conveyor transporting material such as soil, rubble or other bulk debris, suspected of being gamma contaminated.

As with the Bucket Monitor it works on a gross gamma signal and can be pre-calibrated for the contamination isotopes of interest. It provides a visual and audible warning if a user-selectable predetermined gamma count level has been exceeded. The instrument can, for example, provide signals to activate a diverter to deflect material above a specified activity level off the conveyor. Alternatively, the Control Unit can provide a 'lock out' signal to the conveyor. The conveyor can only be restarted when the offending material, such as a radium dial, has been removed and the gamma count level has reduced to below the set threshold.

The throughput is only limited by the feed rate to and the capacity of the conveyor. As with the bucket monitor there are no moving parts and it is simple to set up and use. The Belt Monitor is powered by a standard 120-240VAC 50Hz supply.

Heat Eye

OVERVIEW

The Heat Eye is a new instrument providing second-by-second information on the Ash, Moisture and Nett Calorific Value (Nett CV) of conveyed coal. This gives the principal benefit of providing higher quality product with a consistent Nett CV - with obvious savings in time and money.

It comprises a Bretby Gammatech Ash Eye (updated NGCQM) fully integrated with a Moisture Monitor (eg the Callidan MA-500). The Heat Eye contains no radioactive sources - it uses Natural Gamma and Microwave Technology.

Lab Ash

OVERVIEW

The LabAsh is a laboratory instrument providing a quick measurement of the ash content of a crushed sample of coal. It is easy to use and provides accurate results within a few minutes.

The LabAsh has been successfully sold to many countries around the world. It has proven to be an economical choice for many laboratory customers.

There are no radioactive sources - the LabAsh uses Natural Gamma Technology.
3012 Multi Function

OVERVIEW

The MTG™ “Multi-function Gauge” provides more data and the lowest cost of ownership of all “Inventory” tank gauges on the market. MTG™ customers experience both economic and operational benefits from its use, typically seeing payback on the MTG™ within the first year of operation.

It is the only tank gauge (single instrument) to provide all necessary data to calculate volume by either Hybrid Method (Level, Temperature, Density, & Water) or Hydrostatic Method (Mass, Density, & Water) in real time directly from the gauge. The MTG™ 3012 transmitter supports over 1,000 strapping points and can provide diagnostic measurements, raw measured data, or calculated data. It is the perfect gauge for use with DCS, SCADA, and HMI software.

Redundant

OVERVIEW

The GSI 3024 Redundant MTG2 is a tank gauge that provides all the features and options of the GSI 3012 MTG, only doubled. It is literally two independent 3012 MTG’s within one physical probe (in tank conduit). (See 3012 MTG information).

It was designed for companies wishing to install both a primary ATG (Automatic Tank Gauge) and ATG acting as a secondary high level alarm system or doubling as a backup to the primary ATG.

Hydrostatic

OVERVIEW

HTP 3050 – Hydrostatic Tank Probe overcomes the poor design and high structural costs of conventional HTG (Hydrostatic Tank Gauges) by providing; Mass, Average product temperature, Other application specific versions of the MTG 3012 are available.

Applications include; Tanks up to 300’ in height (MTG 3012-L "Long"), Sanitary tanks for food process (MTG 3012-S "Sanitary"), High pressure tanks – spherical tanks (MTG 3012-H "High Pressure" a combination of the 3024 and L), Production tanks 16’ – 24’ in height (MTG 3000-P "Production" currently in Beta testing), and Marine tankers & barges (MTG 3012-M "Marine" a combination of the 3024, L, and Brass).

3025 Multi-function

OVERVIEW

MTP 3025 – Multi-function Tank Probe is designed to complement the use of any Level Gauge (Radar, Servo, etc.). The MTP provides; Multi-point spot temperature, Average product temperature, Multi-strata density, Average density, free water, and options such as Entrained water, Vapor pressure, and Vapor temperature.
Float & Tape

OVERVIEW

Sometimes referred to as a "Mechanical gauge", "Automatic tank gauge", or "Float & Tape tank gauge", the GSI-2570 is used to measure the level (or interface) of product within a liquid storage tank.

Basic Functionality:
Changes in liquid level cause the float to travel up or down on the product. The float is physically connected to a perforated tape. The counter balance spring keeps the perforated tape taut as it extends and retracts from the gauge head, actuating the counter assembly and viewable counter indication (level).

MMP Gauge

OVERVIEW

MMP is a new gauge recently introduced to the market. It is the third generation of the CAP product line.

The MMP can physically install within any tank up to 20 feet (6m) in height (UST, AST, Rail Car, Tank trucks, Bullet tanks, Cylinder Tanks, etc.). It is simply not just another gauge, it is truly unique.

Consider a probe that is nothing but stainless steel pipe, with no sensitive elements in contact with liquid media and No Moving Parts. Contemplate a probe with custody transfer level accuracy (±1mm) working equally well with both liquefied gases and liquids. Bear in mind this probe provides multi-point spot temperature and average product temperature measurements. Think about a probe that can measure water level with the same millimetre accuracy as liquid level.

Intelligent Field

OVERVIEW

The GSI-E/IFI "Enhanced - Intelligent Field Interface" provides multiple integration solutions for tank gauging. We have yet to find a situation where it doesn't provide the functionality that you want!

Designed to be used either in the control room or in the field (tank farm). The E/IFI is a modular field interface design. The E/IFI can be thought as the Tinker Toys, Erector Sets, Building Blocks, or Lego's of the tank-gauging world, providing connectivity between all local or remote technologies, topologies, and HMI's.

Enhanced Tank Gauge

OVERVIEW

The E/TGI is a field mounted tank gauge interface that provides the following:
- Local display
- Protocol conversion
- Topology conversion
- Data Concentrator
- Programmable device for custom software applications and RTU

Features include:
- One RS 232/485 and Single or redundant 10BaseT (RJ-45) or 10BaseT-FL (Fiber) ports to a host device.
- WEB enabled TCP/IP (connectivity to Intranet / Internet is browser supported).
- One RS 232/485 port to field devices.
- I.S. Barriers, Optical Isolation, & Surge Protectors to field devices (based upon field devices used).
- Single or multiple tanks per unit (based upon field devices used)
- Optional: I/O boards
- NEMA 7 or NEMA 4X units are available.
Solar Unit

OVERVIEW

The GSI-1525 Solar Interface Unit (SIU) is designed to provide local power to both the gauge technology and communications (cabling) topology. Typically used in remote areas where power and a direct means of communication are not available or where the cost of installation is less than traditional hardware and conduit.

GSI manufactures a variety of single or multiple tank interfaces using solar power. Size will vary based upon installation location (climate), gauge technology, and communications (cabling) topology used. Gauge technologies available include: Multi-function Tank Gauge (MTG), Radar (RTG), Capacitance probe (CAP), Magnetostrictive, Mechanical gauge & Transmitter, Ultrasonic (UST), Guided Wave Impulse Radar (TDR), and others. Level point switches and other I/O can be utilized. Communications / Cabling methods include: BlueTooth, Spread Spectrum Radio, Cellular, Satellite, Microwave, Ethernet 10BASE-FL Fiber Link, and WEB enabled.

Interface Field Unit

OVERVIEW

The 1420 Field Display Unit from Gauging Systems Inc. combines years of experience and expertise in legacy field bus technologies and protocols to bring an intelligent field display that can interface to a wide range of different vendor sensors, transmitters, and instruments.

Where traditionally instruments from different vendors have had proprietary interfaces and protocols demanding separate displays for each instrument, this unit can display data from many different vendor instruments through one integrated unit.

Consequently the cost of providing field indication of data in tank gauging and tank inventory applications can now be significantly reduced.

This device is ATEX approved for installation into hazardous areas and provides a means for user interaction to navigate the different displays provided with the system.

Mini Tank Receiver

OVERVIEW

The new Mini Tank Receiver from Gauging Systems Inc. is a small integrated tank gauging and tank inventory management system, utilizing the latest embedded Windows Technology.

It features a full graphical LCD display with touch screen technology, up to 8 configurable serial communication ports that can serve as host or field ports, full inventory calculations to API/ASTM standards, an OPC DataAccess Server and much more.

In addition to being a small tank inventory management system, it can be used as a foreign device gateway to higher level DCS and site wide business information systems by providing an open interface to older legacy and proprietary protocols and interfaces.
OVERVIEW
The Win TG Pro is the first tank gauging software on the market designed and developed for the newest Microsoft Windows based operating systems (2000, XP Professional, etc.). The architecture provides for single user to distributed enterprise applications. A server with multiple clients can be distributed throughout a plant or, via an Intranet, throughout the company. The Win TG Pro is designed to meet current and future .NET platform capabilities.

Hand TG Pro

OVERVIEW
The GSI-1155 Hand TG PRO is a PDA (Personal Digital Assistant) with software specifically designed for tank gauging applications. Used from non-classified areas, outside of the tank dike. The software applications options include: Remote tank farm operators interface (Win TG PRO Client); monitor alarms, individual tank movement, tank parameters, messages, etc.

Entry of tank hand lines on site (time & date stamped with download capability to the Win TG PRO Software) for automated yield reporting
Local calibration and diagnostics of instruments (GSI-3000 MTG, GSI-3100 CAP, GSI-2000/APTB Transmitter, etc.)

Remote viewing of instrument manuals, drawings, parts list, and maintenance history (Win TG PRO with SQL Database and Maintenance PRO Software)

GAS DETECTION
Sensepoint XCD

OVERVIEW
The Sensepoint XCD range provides comprehensive monitoring of flammable, toxic and Oxygen gas hazards in potentially explosive atmospheres, both indoors and outdoors. Users can modify detector operation using the LCD and magnet switches without ever needing to open the unit. This enables one-man, non-intrusive operation and reduces routine maintenance time and costs.

Sensepoint PRO

OVERVIEW
The Sensepoint Pro provides comprehensive monitoring of flammable, toxic and oxygen gas hazards in potentially explosive atmospheres, both in and out of doors. Users can modify detector operation using the remote control provided without ever needing to open the unit. This enables one-man, non-intrusive, operation and reduces routine maintenance time and costs.
XNX™ Universal

**OVERVIEW**

XNX is designed for flexible integration, simple installation, user friendly operation and straightforward maintenance. It is ideal for use with a range of gas monitoring controllers or industry standard PLCs. Users are assured of being protected in all conditions with Honeywell Analytics gas monitoring solutions.

Sieger Searchline

**OVERVIEW**

The Searchline Excel is the world’s best selling infrared open path gas detector with over 6,000 units installed in challenging applications throughout industry. From the Arctic Circle to the Gulf of Mexico, customers have repeatedly selected the Searchline Excel as their preferred choice.

Signal point Pro

**OVERVIEW**

The Signalpoint Pro is an intrinsically safe, cost effective, toxic and Oxygen gas detector for use in the toughest environmental conditions. A 2-wire, 4-20mA loop powered device that can be used indoors or outdoors in areas that are routinely washed or hosed down.

Apex

**OVERVIEW**

Apex takes the best elements of gas detection design and combining them into one unit. Apex provides the highest performance, installation flexibility, a wide range of accessories and a choice of communication outputs. All this is provided in a package that is easy to install, operate and maintain.

Sieger

**OVERVIEW**

System 57 accepts inputs from flammable and toxic gas detectors, a large range of flame, smoke and heat detectors and manual call points. Available outputs include relays, analog signals and industry standard digital protocols. Packaged in either wall mounting cabinets or panel mounting racks, System 57 can be used stand alone or integrated into the heart of a fire and gas system.
HA 71

OVERVIEW

The Honeywell Analytics HA71 16 Channel Digital Gas Controller is designed to provide simultaneous display and alarm functions for up to 16 input variables. A graphic LCD displays monitored data as trends, bar graphs and engineering units. Three adjustable alarm levels are provided per channel. Relay outputs allow control of beacons horns and other alarm events. A horn relay may be set for steady or pulsing operation.

Manning EC-F9-NH3

OVERVIEW

The Manning EC-F9-NH3 with SensorCheck™ features industry-leading performance gas detection technology and adds a built-in system to monitor and predict the sensor’s electrical viability.

Manning IRF9

OVERVIEW

Protect the environment while protecting your bottom line — with Infrared refrigerant gas sensing solutions from Honeywell Analytics

Be green and save green. Choose Honeywell Analytics for all your refrigerant gas monitoring needs.

Gas Alert Clip

OVERVIEW

As the world’s most popular and widely used zeromaintenance gas detector, the GasAlertClip Extreme offers continuous, reliable protection. Available in two year or three year versions, this single gas detector requires no calibration, sensor replacement, battery replacement, or battery charging.

Compatible with the MicroDock II automatic test system, the simplicity of the GasAlertClip Extreme combined with minimal training requirements and negligible maintenance costs, make the GasAlertClip Extreme one of the most cost-effective PPE solutions for facility workers and on-site contractors.

Gas Alert

OVERVIEW

Designed with durability and comfort in mind, the GasAlert Extreme reliably monitors for any single gas hazard within its wide range of available toxic gas models. With easy on/off operation, this single gas detector offers extended longevity with a two year field-replaceable battery and sensor.

Calibration is a simple automatic procedure and is compatible with BW's MicroDock II automatic test and calibration system. A wide range of user options, multilanguage display and datalogging functionality make the GasAlert Extreme an ideal solution for many applications.
Gas Alert Max

OVERVIEW
GasAlertMax XT II is the smart, simple, economical way to compliance. Workers feel safe and incidents are minimized so everyone will be able to do more. That means savings realized from business continuity and productivity.

Simple operation, with SmartSample pump.
GasAlertMax XT II reliably monitors up to four hazards and combines straightforward one-button operation with our robust, motorized pump for intelligent, remote sampling, ideal for confined spaces. The GasAlertMax XT II is fully compatible with MicroDock II automated test and calibration system.

Gas Alert Micro

OVERVIEW
Simultaneously monitor and display up to five atmospheric hazards with the GasAlertMicro 5 series. Adaptable to a variety of applications, the GasAlertMicro 5 Series has an extensive selection of user-settable fields options and is available as either a standard toxic gas model, a PID model for the detection VOCs, or an IR model for CO2 detection.

Use the passcode function to prevent unauthorized modifications of the instrument's settings. Compatible with BW’s MicroDock II automatic test and calibration system, the GasAlertMicro 5 Series is unparalleled in its versatility, performance and overall value.

Gas Alert Micro Clip

OVERVIEW
The slim and compact GasAlertMicroClip XT provides affordable protection from atmospheric hazards. With continuous visual confirmation of detector operation and compliance provided by the IntelliFlash™ feature.

Simple one-button operation for the ultimate ease of use significantly reduces training times. The GasAlertMicroClip XT is fully compatible with BW’s MicroDock II automatic test and calibration system.

Gas Alert Quattro

OVERVIEW
Rugged and reliable, the GasAlertQuattro four-gas detector combines a comprehensive range of features with simple one-button operation. With flexible power options, the GasAlertQuattro is always ready. The graphic LCD displays easy to identify icons that indicate operational information, such as bump test and calibration status for simplified onsite auditing.

IntelliFlash provides continuous visual confirmation of detector operation and compliance. Suited to a wide range of industrial applications including confined space entry, the GasAlertQuattro is fully compatible with BW’s MicroDock II automatic test and calibration system.
Multifunction Calibrators

OVERVIEW
A highly integrated multifunction calibrator featuring several patented technologies, the 223A is an ultra-compact, rugged, and easy to use hand-held device for sourcing, simulating and measuring pressure, temperature, and electrical signals. Its smartphone-like menu and interface make the operation simple. With HART communication capability, the 223A is ideal for calibrating, maintaining, and troubleshooting HART instrumentation. Automation and documentation capabilities make the 223A a turnkey solution.

Digital Pressure - Calibrator

OVERVIEW
The Additel 672 is a microprocessor controlled, precision instrument powered by an internal Li-ion battery or external 10V specified AC adapter. It is portable and capable of accurate pressure instruments and sourcing when calibrating transducers, pressure switches, etc. Advanced silicon technology delivers 0.02%F.S accuracy over ranges to 600 bar, 0.1%F.S accuracy over ranges to 2500 bar, permits use in most environments without degradation of accuracy.

Digital Pressure Gauge

OVERVIEW
The all new Additel 681 is a highaccuracy, highresolution digital pressure gauge. Because of their robust design, these gauges meet stringent demands and can be used in critical industrial applications where particular importance is attached to measuring accuracy, reproducibility, long term stability and protection against dust penetration. The Additel 681 has an accuracy of 0.05% of the calibrated span which is fully temperature compensated across the range of 10°C to 50 °C.

Digital Data Logging / Wireless Pressure Gauge

OVERVIEW
With advanced microprocessor technology and state-of-the-art silicon pressure sensors, the 680 series digital pressure gauges provide an accurate, reliable, and economic solution for a wide range of pressure applications. They are loaded with functionality and remarkably easy to use. To reach the best performance, every silicon pressure sensor in our gauges is specially aged, tested and screened before assembly. With data logging and wireless features, the 680W gauge can store pressure measurement data in the internal memory or display them on PC through wireless communication. The 680 series digital pressure gauges are unmatched in performance and reliability. Best of all, they are very affordable.

Automatic Pressure Calibrator

OVERVIEW
Built-in electric pump, intelligent control, source the set pressure fast and accurately, Abandon tiring manual or electric pre-pressure and fine adjust.
Built-in Rechargeable Battery
Compact Size, weight:5.6kg
Range -1 to 41 bar
Low Pressure Pump

**OVERVIEW**

The 901 Low Pressure Test Pump is a hand operated pressure pump designed to generate pressures from -6 psi (-0.4 bar) to 6 psi (0.4 bar). A high-quality screw press is designed for fine pressure adjustment, with an adjustment resolution up to 0.1 Pa (0.001 mbar). The 901 is a very stable low pressure calibrator. It makes use of an isothermal bellows chamber which is designed for reducing the possible effects of environmental temperature change. Most pumps make use of a check valve (non-returning valve) and are not well insulated which will cause large fluctuations in pressure with a change in ambient temperature or when the unit is touched. The 901 does not use a check valve and is remarkably stable. Two hand-tight connectors installed on the pump allow easy connecting and disconnecting to the test pump without the need for PTFE tape or wrenches. The 901 is an ideal comparison test pump for low pressure applications.

Handheld Test Pump

**OVERVIEW**

The 918 Pneumatic Pressure Test Pump is a hand operated pressure pump designed to generate pressure from 95% vacuum to 1,500psi (100bar). A high-quality screw press is designed for fine pressure adjustment, with an adjustment resolution up to 10 Pa (0.1 mbar). A specially designed shut-off valve makes the pressure as stable as possible during calibration. A built-in gas-liquid isolator protects the pump from moisture and dirt to reduce the need for maintenance. Two hand-tight quick connectors installed on the pump allow easy connecting and disconnecting to the test pump without the need for PTFE tape or wrenches. The 918 is an ideal comparison test pump for pressure instruments calibration.

Hydraulic Pressure Test Pump

**OVERVIEW**

The 927 Hydraulic Pressure Test Pump is a hand operated pressure pump designed to generate pressure from 85% vacuum to 10,000 psi (700bar). With the patented screw press technology, high pressures can be easily generated, as well as increased and decreased smoothly. With no check valve (non-returning valve), the 927 avoids the troublesome leakage issues that is usually experienced with most hand pumps and allows for minimal maintenance. Two hand-tight quick connectors installed on the pump allow easy connecting and disconnecting to the test pump without the need for PTFE tape or wrenches. The 927 is an ideal comparison test pump for calibrating pressure measuring instruments such as test gauges, indicators or transducers in the field or laboratory.
Pneumatic pressure calibration

**OVERVIEW**

The 919A High Pressure Test Pump is a hand operated pressure pump designed to generate pressure from 95% vacuum to 2,000 psi (140 bar). With a long lever, it just takes 30 seconds to reach 2,000 psi (140 bar). A high-quality screw press is designed for fine pressure adjustment, with an adjustment resolution up to 0.001 psi (10 Pa, 0.1 mbar). A specially designed shut-off valve makes the pressure as stable as possible during calibration. A built-in gas-liquid isolator protects the pump from moisture and dirt to reduce the need for maintenance. The residual liquid in the pump introduced from the devices under test will be collected and then pushed out during pressure release. Two hand-tight quick connectors installed on the pump allow easy connecting and disconnecting to the test pump without the need for PTFE tape or wrenches. The 919A is an ideal comparison test pump for pressure instruments calibration.

Hydraulic Pressure Pump

**OVERVIEW**

The 938 Hydraulic High Pressure Test Pump is specially designed for calibrating oil-free pressure measuring instruments in the range of 85% vacuum to 15,000 psi (1,000 bar). All parts used in the pump have been carefully cleaned to remove oil. The pump uses water as the media. With the patented screw press technology, high pressures can be easily generated, as well as increased and decreased smoothly. A specially designed shut-off valve makes the pressure as stable as possible during calibration. With no check valve (non-returning valve), the 938 avoids the troublesome leakage issues that is usually experienced with hand pumps and allows for minimal maintenance. Three hand-tight connectors installed on the pump allow easy connecting and disconnecting to the test pump without the need for PTFE tape or wrenches. The 938 is an ideal comparison test pump for calibrating oil-free pressure measuring instruments such as test gauges, indicators or transducers in the laboratory.

High Pressure Hydraulic Pump

**OVERVIEW**

The 949 Hydraulic Ultra-high Pressure Test Pump is a hand operated pressure pump designed to generate pressure up to 37,500 psi (2500 bar). With the patented screw press technology, high pressures can be easily generated, increased and decreased smoothly. A specially designed shut-off valve makes the pressure as stable as possible during calibration. With no non-returning valve, the 949 avoids the troublesome leakage issues that is usually experienced with hand pumps and allows for minimal maintenance. The 949 is an ideal comparison test pump for calibrating ultra-high pressure measuring instruments such as test gauges, indicators or transducers in the laboratory.

Manifolds and Test Kits

**OVERVIEW**

1/4NPT male to various connectors as follows (26 piece, 17 piece & 10 piece, case included)