



APPLICATIONS BROCHURE

The Process Industry Solution Provider

ABOUT US

We're proud to be the leading process industry solution provider offering innovative and high-quality instrumentation, delivering smarter solutions for your business.

Since 1998, Process Instrument Solutions has been committed to delivering innovative application solutions tailored to industry needs. Our experienced team ensures full support for product sales, including installation, commissioning, calibration and servicing. With a substantial inventory and adherence to industry standards, we pride ourselves on providing reliable solutions with smooth deliveries and safe working conditions.

OUR MANUFACTURING PARTNERS

Our portfolio has been carefully selected to ensure we have a high quality solution for every application. Trustworthy partnerships built on clarity, knowledge and reliability.



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GAS ANALYSERS

Accurately analysing process gases is a complex challenge that demands highly precise measurements to ensure reliable results. We provide industry-leading expertise and advanced analytical solutions tailored to your specific Gas Analytics needs. Whether optimising efficiency, ensuring product quality, or meeting stringent regulatory requirements, our team supports you every step of the way.

Our comprehensive gas analyser portfolio covers continuous emissions monitoring, biogas analysis, generator gas measurement, and process gas chromatography. Each solution is engineered for maximum accuracy, long-term stability, and minimal maintenance in demanding industrial environments.

SIEMENS



**SET CEMS CERT
CONTINUOUS EMISSIONS
MONITORING SYSTEM**

SIEMENS



SET BGA BIOGAS ANALYSER

SIEMENS



**SET GGA GENERATOR GAS
ANALYSER**

SIEMENS



**ULTRAMAT 23 EXTRACTIVE
GAS ANALYSER**

SIEMENS



ULTRAMAT 6 EXTRACTIVE

SIEMENS



**CALOMAT 6 EXTRACTIVE
CONTINUOUS FOR HYDROGEN
AND NOBLE GASES**

SIEMENS



FIDAMAT 6 EXTRACTIVE GAS ANALYSER FOR HYDROCARBONS

SIEMENS



SITRANS TDL PLATFORM

SIEMENS



LDS 6 CONTINUOUS PROCESS GAS ANALYSIS

SIEMENS



SIPROCESS GA700 EXTRACTIVE GAS ANALYSER

MICRO
by Sensirion



DYNAMIQ-X NG2210 COMPACT EX FOR ON-LINE NATURAL GAS ANALYSIS

MICRO
by Sensirion



DYNAMIQ-X PROCESS GAS CHROMATOGRAPHS FOR ON-LINE GAS ANALYSIS

CASE STUDY

CARBON CAPTURE GAS ANALYSER SYSTEM

Process Instrument Solutions designed and delivered a bespoke gas analyser and conditioning system for a high-profile carbon capture pilot project, enabling precise monitoring of CO₂ purity, SO₂, NO and oxygen throughout the process. Featuring Siemens ULTRAMAT 23 gas analysers and a fully modular, containerised design, the system provided reliable, high-accuracy measurements in challenging operating conditions. The successful installation validated the customer's carbon capture technology and supported plans to scale up to a full-capacity plant, helping reduce emissions while enabling captured CO₂ to be reused within the process.





LIQUID ANALYSERS

Accurate liquid analysis is crucial for upholding product quality, enhancing process efficiency, and ensuring regulatory compliance. We offer cutting-edge analytical technologies and industry expertise to facilitate precise monitoring of composition, purity, and contaminants.

Whether you are focused on optimising production, enhancing safety, or adhering to stringent regulatory requirements, our customised solutions provide dependable, real-time insights for liquid analytics. With our assistance, you can achieve heightened efficiency, minimise waste, and maintain full compliance with confidence.



BIOTECTOR B7000I TOC ANALYSER



BIOTECTOR B3500UL TOC ANALYSER



5500 SC SILICA ANALYSER



SC4500 CONTROLLER



SC1000 CONTROLLER DISPLAY MODULE



TU5300 SC/TU5400 SC ONLINE LASER TURBIDIMETERS



**INDUSTRIAL PROCESS
REFRACTOMETER DCM-20
FOR CHEMICAL**



**DCM-20 INLINE
REFRACTOMETER FOR FOOD
& BEVERAGE INDUSTRY**



**SEMICONDUCTOR DCM-10
INLINE CONCENTRATION
MONITOR**

CASE STUDY

REPLACEMENT SOLUTION FOR AN AGING FLEET OF BIOLOGICAL OXYGEN DEMAND ANALYSESERS

At East Midlands Airport, an ageing fleet of Biological Oxygen Demand (BOD) analysers used to monitor surface water runoff from de-icing operations required a modern, reliable replacement solution to maintain environmental compliance. Process Instrument Solutions delivered a phased turnkey installation of ten analysers across multiple remote locations, incorporating self-cleaning pre-filtration systems to protect against debris and reduce maintenance requirements. The new solution also introduced telemetry and remote monitoring for real-time system visibility, while supporting future Total Organic Carbon (TOC) analysis requirements. Ongoing comparative testing, maintenance and calibration ensure reliable performance, improved operational efficiency and continued protection of the airport's drainage network.



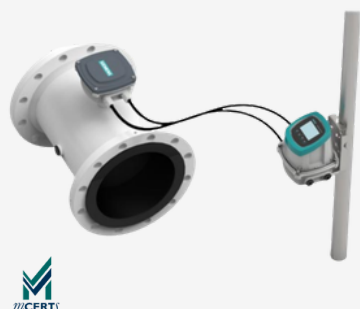


FLOW

For comprehensive assurance in measuring the flow of liquids, gases, and steam, Process Instrument Solutions provides an extensive product range tailored to every application. Our offerings include everything from basic flow indicators to sophisticated field bus-compatible electronic systems. Our experienced team is available to assist you in selecting the most suitable solution to meet your specific requirements.

From Coriolis and electromagnetic sensors to ultrasonic clamp-on and vortex technologies, our portfolio addresses the full spectrum of flow measurement challenges.

SIEMENS



**SITRANS FMS300
ELECTROMAGNETIC FLOW
SENSOR**

SIEMENS



**SITRANS FC520/540
FLOWMETER SYSTEM**

SIEMENS



**SITRANS FS230 ULTRASONIC
CLAMP-ON FLOWSYSTEM**

SIEMENS



**SITRANS FMT020
TRANSMITTER**

SIEMENS



**SITRANS FMS500 MAGNETIC
FLOW SENSOR**

SIEMENS



**SITRANS FMS100
ELECTROMAGNETIC FLOW
SENSOR**

SIEMENS



**SITRANS FCS100 CORIOLIS
FLOW SENSOR**

SIEMENS



**SITRANS FS220 CLAMP-ON
ULTRASONIC FLOWMETER**

SIEMENS



**SITRANS WF300 SOLIDS
FLOWMETER**

SIEMENS



**SITRANS FS290 PORTABLE
CLAMP-ON FLOW**

SIEMENS



**SITRANS FC620/640
FLOWMETER SYSTEM**

SIEMENS



**SITRANS FX330 VORTEX
FLOWMETER**

SIEMENS



**SITRANS FVA250 VARIABLE
AREA FLOWMETER**

**FOX
THERMAL**



**FT4X THERMAL GAS MASS
FLOW METER**

**FOX
THERMAL**



**FT3 THERMAL GAS MASS
FLOW METER**



FT1 GAS MASS FLOW METER



FT4A THERMAL GAS FLOW METER



TM100™ ECONOMICAL INDUSTRIAL THERMAL MASS FLOW METERS



QUADRATHERM® 780I AIR/GAS THERMAL MASS FLOWMETER



TM500™ HIGH PERFORMANCE INDUSTRIAL THERMAL MASS FLOW METER



QUADRATHERM® 640I AIR/GAS THERMAL INSERTION MASS FLOWMETER



SMARTTRAK®100 PREMIUM DIGITAL CONTROLLERS & FLOWMETERS



FP-3011 FLOW COMPUTER



FP-3031 FLOW TOTALISER

bürkert
FLUID CONTROL SYSTEMS



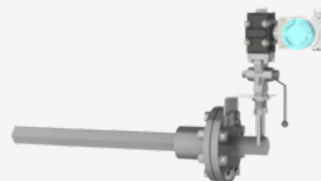
**TYPE 8035 INLINE
FLOWMETER OR BATCH
CONTROLLER**

bürkert
FLUID CONTROL SYSTEMS



**TYPE 8098 FLOWAVE SAW
FLOWMETER**

SKI



///CERT

**ACCUFLO®QAL: STACK FLOW
METER**

SKI



**SDF-SENSORS: AVERAGING
PITOT TUBES FOR GASES
AND LIQUIDS**

SKI



**ORIFICE PLATES WITH
INTEGRAL TAPS**

SKI



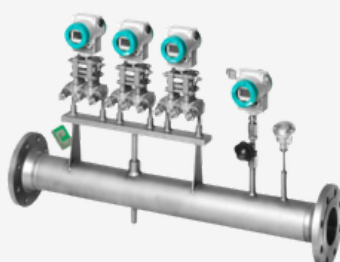
**CONE FLOW METERS WITH A
CONE WELDED INSIDE**

SKI



**ACCUFLO®HMP CERTIFIED
HIGH ACCURACY MASS FLOW
METER**

SKI



**ACCUFLO®LPD MASS FLOW
METER**

**PRECISION
DIGITAL**



Ex

**PD6928-HA PROTEX+
EXPLOSION-PROOF LOOP-
POWERED RATE/TOTALISERS**

PYROPRESS®



FLOW SWITCH (FLAMEPROOF / INTRINSICALLY SAFE)

DANIEL
Decades Proven. Field Chosen.



SENIOR DUAL-CHAMBER ORIFICE FITTINGS

DANIEL
Decades Proven. Field Chosen.



SERIES 1200 LIQUID TURBINE METERS PRODUCTS

DANIEL
Decades Proven. Field Chosen.



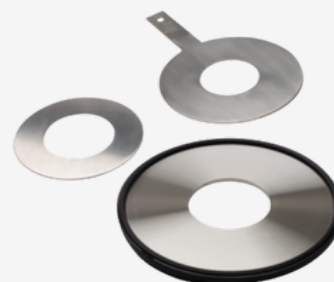
SERIES 1500 LIQUID TURBINE METERS PRODUCTS

DANIEL
Decades Proven. Field Chosen.



ORIFICE FLANGE UNIONS

DANIEL
Decades Proven. Field Chosen.



ORIFICE PLATES

CASE STUDY

SERVICE IN THE SNOW TO KEEP THE GAS FLOW

During a winter site visit, Process Instrument Solutions delivered a safe and efficient gas flow monitoring solution for anaerobic digestion and landfill gas applications by installing custom-engineered pipe saddles and Fox Thermal FT1 insertion gas mass flowmeters. The project eliminated the need for welding on existing galvanised pipework in hazardous areas, reducing safety risks, installation time and operational disruption while maintaining a secure gas-tight seal. The FT1 flowmeters also provided hot tap withdrawable functionality, allowing maintenance and verification without interrupting production. By combining innovative instrumentation with bespoke engineering, the solution improved reliability, operational safety and long-term serviceability for the customer's gas flow monitoring system.





LEVEL

Process Instrument Solutions provides an extensive selection of level measurement devices suitable for various applications. Our services encompass the supply, installation, and commissioning of a comprehensive array of both contacting and non-contacting instrumentation, designed for continuous and point-level measurement, sourced from our esteemed global partners.

Each solution is engineered for dependable performance in demanding process conditions, offering high accuracy, minimal maintenance, and seamless integration with modern control systems.

SIEMENS



SITRANS LR150 RADAR TRANSMITTER

SIEMENS



SITRANS LR530 FLANGED ENCAPSULATED ANTENNA

SIEMENS



ECHOMAX XRS-5 ULTRASONIC TRANSDUCERS

SIEMENS



SITRANS LG240/ LG250/ LG260/ LG270 RADAR TRANSMITTERS

SIEMENS



SITRANS LT500 HYDRORANGER LEVEL MONITOR

SIEMENS



SITRANS PROBE LU240 ULTRASONIC LEVEL TRANSMITTER WITH HART

SIEMENS



**SITRANS LC300 CONTINUOUS
LEVEL TRANSMITTER**

SIEMENS



**SITRANS LVL200 VIBRATING
POINT LEVEL SWITCH**

SIEMENS



**POINTEK CLS300
CAPACITANCE SWITCH**

CASE STUDY

SIEMENS CLS200 CAPACITANCE SWITCHES ENHANCE LEVEL CONTROL AT WASTEWATER PLANT

Process Instrument Solutions installed Siemens SITRANS CLS200 digital capacitance switches at a UK wastewater treatment plant to enhance level monitoring and control in hazardous environments. The switches were chosen for their reliability, ProfiBus compatibility, EX certification, and ability to measure various materials. The installation improved operational safety, inventory management, and provided dependable long-term performance, increasing operator confidence in the level control system.





PRESSURE

Pressure measurement instrumentation is vital for monitoring and optimising industrial processes, ensuring safe operation and product quality.

We offer a wide range of pressure solutions, including transmitters, gauges, switches, and sensors, suitable for various environments and industries like water, energy, chemical processing, and manufacturing. These instruments provide precise measurements, crucial for process control, equipment protection, and regulatory compliance, enhancing overall system efficiency.

SIEMENS



**SITRANS P320 DIFFERENTIAL
PRESSURE TRANSMITTER**

SIEMENS



**SITRANS LH300 PRESSURE
TRANSMITTER**

SIEMENS



**SITRANS P420 GAUGE
PRESSURE**

SIEMENS



**SITRANS P320/P420
HYDROSTATIC PRESSURE
TRANSMITTER**

SIEMENS



**SITRANS P300 PRESSURE
TRANSMITTER FOR GAUGE
AND ABSOLUTE PRESSURE**

Labom



**DIFFERENTIAL PRESSURE
GAUGE BG3200/BG3300**

Labom



**DIFFERENTIAL PRESSURE
TRANSMITTER TYPE SERIES
CI4340**

Labom



**KOMBIBAR SINGLE PROCESS
CONNECTION**

Labom



**PRESSURE TRANSMITTER
COMPACT ECONOMIC SERIES
CA1100**

Labom



**PRESSURE TRANSMITTER
WITH BOURDON TUBE SERIES
CK5200**

Labom



HART
COMMUNICATION PROTOCOL



**PRESSURE TRANSMITTER
PASCAL SERIES CV4100**

Labom



**RECONNECT FAST COUPLING
DEVICE**

Labom



**PRESSURE GAUGE SERIES
BH8100/BH8200**

Labom



**DIAPHRAGM PRESSURE
GAUGE SERIES BA2200**

PYROPRESS®



**PRESSURE SWITCH
(FLAMEPROOF/
INTRINSICALLY SAFE)-
PERSEUS™**

PYROPRESS®



**VACUUM SWITCH
(INDUSTRIAL) – PERSEUS™**

PYROPRESS®



**PRESSURE SWITCH
(FLAMEPROOF /
INTRINSICALLY SAFE) –
TITAN™**

PYROPRESS®



**PRESSURE SWITCH
(FLAMEPROOF) – HERMES™**

PYROPRESS®



**PRESSURE SWITCH
(INDUSTRIAL) – ARGUS™**

PYROPRESS®



**PRESSURE & DIFFERENTIAL
PRESSURE TRANSMITTER
(INDUSTRIAL)**

PYROPRESS®



**PRESSURE & DIFFERENTIAL
PRESSURE TRANSMITTER
(INTRINSICALLY SAFE)**

CASE STUDY

HYGIENIC MAGNETIC FLOWMETERS AND HYGIENIC PRESSURE GAUGES FOR A MAJOR FOOD AND BEVERAGE MANUFACTURER

Process Instrument Solutions supplied, installed and commissioned Siemens MAG1100 hygienic magnetic flowmeters and Labom DN100 hygienic pressure gauges for a major food and beverage manufacturer, helping the customer achieve highly accurate flow and pressure measurement while maintaining the strict hygiene standards required for food production. The solution was designed to withstand clean-in-place (CIP) processes, with hygienic DIN11851 process connections ensuring reliable, repeatable measurements and contamination-free operation. By selecting proven hygienic instrumentation and providing ongoing calibration, verification and technical support, Process Instrument Solutions helped improve production efficiency, increase process confidence and ensure long-term compliance with demanding food and beverage manufacturing standards.





TEMPERATURE

Temperature instrumentation is crucial for monitoring and controlling industrial processes, impacting safety, efficiency, and product quality.

We offer a wide range of solutions, including sensors, probes, transmitters, and thermocouples, suitable for various industries like water, energy, food, chemicals, and manufacturing. These instruments ensure reliable temperature measurements, aiding in process control, equipment protection, and regulatory compliance for safe and efficient operations.

SIEMENS



**SITRANS TS500
TEMPERATURE SENSOR**

Labom



**BIMETAL THERMOMETER
RADIAL BOTTOM/CENTRE
BACK CONNECTION FP2300**

Labom



**RESISTANCE THERMOMETER
PT100 CLAMP-ON
TECHNOLOGY GA2610**

Labom



**TEMPERATURE
TRANSMITTER GV4
MINITHERM**

PYROPRESS®



**TEMPERATURE SWITCH
(INDUSTRIAL) – PERSEUS™**

PYROPRESS®



**TITAN – PRESSURE,
TEMPERATURE, LEVEL AND
FLOW SWITCHES**

PYROPRESS®



TEMPERATURE TRANSMITTER (FLAMEPROOF / INTRINSICALLY SAFE)

MÜLLER
INDUSTRIE - ELEKTRONIK GMBH



MAGNETIC SURFACE TEMPERATURE SENSOR RADIO (METS-WRM)

thermo-electra
temperature sensor solutions



ML7038B MULTI-POINT TEMPERATURE SENSOR WITH GUIDING TUBE

thermo-electra
temperature sensor solutions



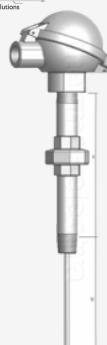
ME 7087 TUBE SKIN THERMOCOUPLE WITH WELDING PAD

thermo-electra
temperature sensor solutions



ME 7096 U-BOLT MOUNTED SURFACE THERMOCOUPLE

thermo-electra
temperature sensor solutions



LEX25A EXPLOSION PROOF RESISTANCE THERMOMETER EEXI FOR ZONE 0,1 AND 2

thermo-electra
temperature sensor solutions



FT 3025 FLANGED THERMOWELL – TAPERED

thermo-electra
temperature sensor solutions



EXI INTRINSICALLY SAFE INFRARED TEMPERATURE SENSOR

thermo-electra
temperature sensor solutions



CA 1005 FAST RESPONSE THERMOCOUPLE

thermo-electra
temperature sensor solutions



**CA 2003 RESISTANCE
THERMOMETER**

thermo-electra
temperature sensor solutions



**CA 1008 GASEOUS MEDIA
TEMPERATURE
THERMOCOUPLE**

thermo-electra
temperature sensor solutions



**DWK 6010 VIBRATION PROOF
THERMOCOUPLE**

CASE STUDY

INSTRUMENTATION ON A PREMIER GASIFICATION PROJECT

Process Instrument Solutions delivered a comprehensive instrumentation package for a prominent gasification plant in the UK, which processes refuse-derived fuel (RDF). This project required the supply of advanced instrumentation from leading manufacturers, including Siemens, Fox Thermal, and Thermo Electra, designed to function reliably in exceptionally demanding conditions. These conditions encompass corrosive syngas environments, temperatures exceeding 500°C, and hazardous ATEX-rated areas.

To address challenges such as tar accumulation and stringent SIL safety requirements, the company devised a customised solution utilising high-temperature resistant materials, optimised instrument placement, and extensive technical consultation with the client. The instrumentation package was successfully commissioned, contributing to the safe, efficient, and reliable operation of the plant. This project has been recognised as a significant advancement within the gasification sector.





VALVES

Valve instrumentation is essential for industrial process control, allowing precise regulation of flow, pressure, temperature, and system performance. By integrating valves with advanced control systems, operators achieve reliable process automation across various applications.

We offer a wide range of valve instrumentation solutions, including control and actuated valves, designed for safe and efficient operation in demanding environments like water treatment, energy, chemical processing, and manufacturing.

DANIEL
Decades Proven. Field Chosen.



**SERIES 7NL NITROGEN
LOADED LIQUID CONTROL
VALVE PRODUCTS**

DANIEL
Decades Proven. Field Chosen.



**SIMPLEX SINGLE-CHAMBER
ORIFICE FITTINGS**

DANIEL
Decades Proven. Field Chosen.



**V707 SPRING LOADED BACK
PRESSURE VALVE**

DANIEL
Decades Proven. Field Chosen.



**SERIES 700 EXTERNAL PILOT
OPERATED LIQUID CONTROL
VALVES**

DANIEL
Decades Proven. Field Chosen.



**SERIES 788 DIGITAL
CONTROL VALVES**

bürkert
FLUID CONTROL SYSTEMS



**TYPE 8792 SIDECONTROL
DIGITAL ELECTROPNEUMATIC
POSITIONER**

SIEMENS



HART
COMMUNICATION PROTOCOL



**SIPART PS2
ELECTROPNEUMATIC
POSITIONER**

SIEMENS



HART
COMMUNICATION PROTOCOL



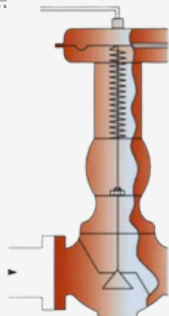
**SIPART PS100
ELECTROPNEUMATIC
POSITIONER**

SIEMENS



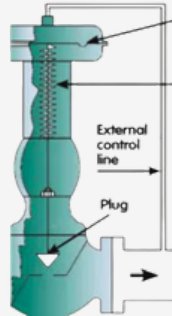
**MOUNTING OF VALVE
MANIFOLDS ON
TRANSMITTERS**

VALVE
SOLUTIONS



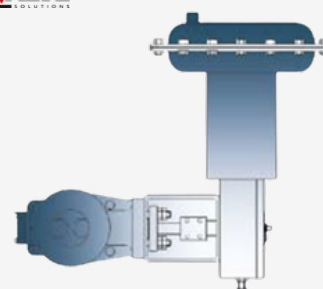
**SERIES 700 UPSTREAM
PRESSURE REGULATING
VALVES**

VALVE
SOLUTIONS



**SERIES 600 DOWNSTREAM
PRESSURE REGULATING
VALVES**

VALVE
SOLUTIONS



**SERIES 200 BUTTERFLY
VALVES**

VALVE
SOLUTIONS



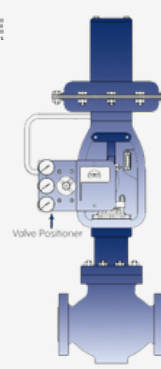
**SERIES 110 GLOBE CONTROL
VALVE**

VALVE
SOLUTIONS



**CLASSIC 130 SERIES
CONTROL VALVE**

VALVE
SOLUTIONS



**PNEUMATIC VALVE
POSITIONER**

bürkert
FLUID CONTROL SYSTEMS



TYPE 2651 FLANGED BALL VALVE – 2 PIECES

bürkert
FLUID CONTROL SYSTEMS



TYPE 3232 PLASTIC DIAPHRAGM VALVE

bürkert
FLUID CONTROL SYSTEMS



TYPE 3004 EXPLOSION PROOF ROTARY ACTUATOR & CONTROL

bürkert
FLUID CONTROL SYSTEMS



TYPE 3320 – ELECTROMOTIVE 2/2 WAY ANGLE SEAT VALVE

bürkert
FLUID CONTROL SYSTEMS



TYPE 6650 FLIPPER SOLENOID VALVE WITH SEPARATING DIAPHRAGM

bürkert
FLUID CONTROL SYSTEMS



TYPE 8647 AIRLINE SP ELECTROPNEUMATIC AUTOMATION SYSTEM

bürkert
FLUID CONTROL SYSTEMS



TYPE 0330 DIRECT- ACTING PIVOTED ARMATURE VALVE

bürkert
FLUID CONTROL SYSTEMS



TYPE 6013 PLUNGER VALVE DIRECT-ACTING

bürkert
FLUID CONTROL SYSTEMS



TYPE 2000 – PNEUMATICALLY OPERATED 2/2 WAY VALVE

bürkert
FLUID CONTROL SYSTEMS



**TYPE 1061 SWITCH BOX
WITH INTEGRAL SOLENOID
VALVE**

bürkert
FLUID CONTROL SYSTEMS



**TYPE 2301 PNEUMATICALLY
OPERATED GLOBE CONTROL
VALVE**

PYROPRESS®



**CRANKCASE EXPLOSION
RELIEF VALVE**

CASE STUDY

SUPPLY OF 108 BÜRKERT BALL VALVES, PILOT SOLENOIDS AND ACTUATORS

Process Instrument Solutions was selected to supply high-specification Bürkert valves for the delivery and off-loading of raw materials at a major UK chemical manufacturing site, thanks to Bürkert's strong reputation, rapid delivery capabilities, and the assurance of correct material certification and documentation.

The project addressed significant safety concerns within an ageing plant that relied on basic safeguards to prevent solvents from being routed to the wrong tanks, creating operational inefficiencies and potential hazards.



To enhance safety and compliance, Process Instrument Solutions supplied and installed SIL-certified valves, pilot solenoids, and actuators fitted with ATEX switch boxes, all integrated with a central control system provided by Lark Technology. This system ensures valves operate correctly, eliminating the risk of incorrect transfers and spillages while meeting stringent health, safety, insurance, and regulatory requirements.

As a result, the plant now benefits from a highly reliable and compliant valve control system that safeguards personnel, protects the environment, and provides confidence in the safe handling of volatile and flammable substances.



DATA LOGGERS & RECORDERS

Our collection of top-tier data loggers ensures reliable and accurate information recording over time or by location, using built-in instruments or external sensors. Ideal for monitoring environmental, industrial, or laboratory conditions, our products, like the intuitive SIREC D300 Display Recorder and flexible DL7 Modular Data Logger, provide precision and versatility.

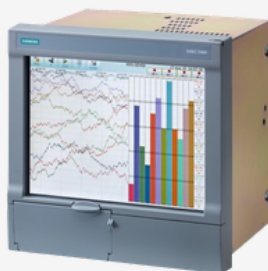
Each device integrates smoothly with existing systems for efficient data collection, enhancing your data recording processes with advanced technology.

SIEMENS



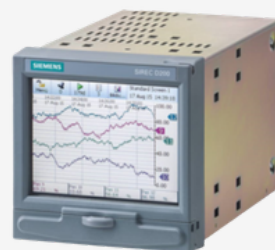
**SIREC D300 DISPLAY
RECORDER**

SIEMENS



**SIREC D400 DISPLAY
RECORDER**

SIEMENS



**SIREC D200 DISPLAY
RECORDER**

metronic



DL7 DATALOGGER CASE KIT

metronic



**DL2 ELECTRONIC DATA
LOGGER**

metronic



**DL7L MODULAR DATA
LOGGER**

metronic



DL7W KIT WALL ENCLOSURE

SKI



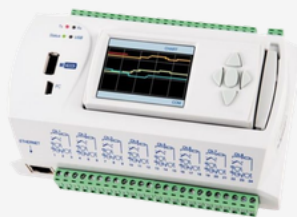
ACCUMIND® UNIVERSAL
FLOW AND HEAT QUANTITY
COMPUTER DISPLAY

MÜLLER
INDUSTRIE - ELEKTRONIK GMBH



MULTIFUNCTIONAL DATA
LOGGER (DLUI-HD)

MÜLLER
INDUSTRIE - ELEKTRONIK GMBH



DATA LOGGER DL-
FIELDLOGGER

MÜLLER
INDUSTRIE - ELEKTRONIK GMBH



DATA LOGGER DL-LOGBOX-
WI-FI

MÜLLER
INDUSTRIE - ELEKTRONIK GMBH



DATA LOGGER DL-IO-KEY

OUR VALUES

Our customer values are at the heart of everything we do, guiding every interaction and ensuring we deliver exceptional service, trust, and lasting relationships.

FULLY COMMITTED TO
EXCELLENCE

CUSTOMER-CENTRIC

OPEN AND CLEAR
COMMUNICATION

ENHANCED VALUE
ENGINEERING

TECHNICAL EXCELLENCE

OFFERING THE
RIGHT SOLUTION



INDICATION

The expert team at Process Instrument Solutions specialises in supplying, installing, commissioning, and calibrating high-quality indication instruments for a variety of applications. We offer a streamlined solution to meet all your needs. Whether you're looking for explosion-proof instruments or loop-powered process metres, our comprehensive range ensures reliability and precision in any environment. Our dedication to exceptional service extends beyond product supply, as we provide expert guidance to help you select the right instruments tailored to your specific requirements. Trust in our expertise to enhance your operational efficiency and ensure seamless integration into your system.

PRECISION
DIGITAL



**PD6928-HA PROTEX+
EXPLOSION-PROOF & I.S.
LOOP-POWERED
RATE/TOTALIZERS**

PRECISION
DIGITAL



**PD6800 PROTEX EX-PROOF
LOOP-POWERED PROCESS
METER**

PRECISION
DIGITAL



**PD6602 LOOP LEADER LOOP-
POWERED PROCESS METER**

PRECISION
DIGITAL



**PD8 PROTEX-MAX
EXPLOSION-PROOF
INSTRUMENTS**

PRECISION
DIGITAL



**PD4-6600 LOOP LEADER+
LARGE DISPLAY LOOP-
POWERED PROCESS METER**

PRECISION
DIGITAL



**PD420 PANEL MOUNT 4-20MA
SET-POINT GENERATOR**

PRECISION
DIGITAL



**PD6060 PROVU DUAL-INPUT
PROCESS METER**

PRECISION
DIGITAL



**TRIDENT AND TRIDENT X2
DIGITAL PROCESS AND
TEMPERATURE PANEL
METER**

PRECISION
DIGITAL



**PD9000 CONSOLIDATOR+
MULTIVARIABLE
CONTROLLER**

PRECISION
DIGITAL



**PD154-158 VIGILANTE II
ANNUNCIATOR**

PRECISION
DIGITAL



**DIGITAL PD6770
VANTAGEVIEW**

PRECISION
DIGITAL



**PD8-6000 PROTEX-MAX
EXPLOSION-PROOF PROCESS
METER**

SIEMENS



**SITRANS LT500
HYDRORANGER /
MULTIRANGER LEVEL
MONITOR CONTROLLER**

SIEMENS



**SITRANS RD100 DIGITAL
DISPLAY**

SIEMENS



**SITRANS RD150 DIGITAL
DISPLAY**



MOISTURE

Moisture measurement instrumentation provides accurate, real-time monitoring of moisture levels in gases, liquids, and solids to ensure product quality, process efficiency and equipment protection. Ideal for chemical processing, oil and gas, pharmaceuticals, food and beverage, power generation and plastics, these systems help prevent contamination, optimise drying processes and maintain regulatory compliance.

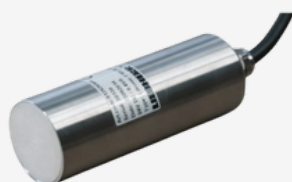
Process Instrument Solutions offers a wide range of moisture measurement instruments tailored to diverse industrial applications.

LIEBHERR



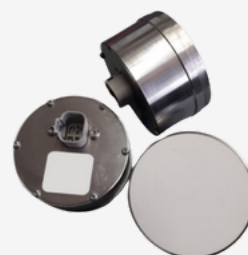
LITRONIC FMS P78 PLANAR SENSOR

LIEBHERR



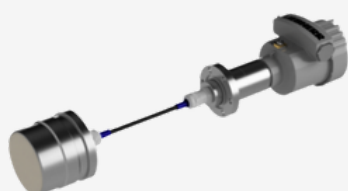
LITRONIC-FMS P30-S PLANAR MOISTURE SENSOR

LIEBHERR



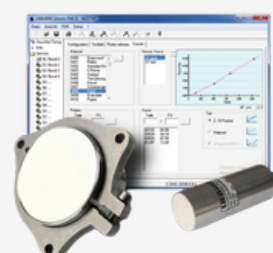
LITRONIC FMS P80-CAN PLANAR MOISTURE SENSOR

LIEBHERR



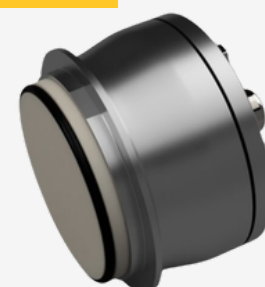
PLANAR MOISTURE SENSOR P78-GD

LIEBHERR



LITRONIC FMS II EVALUATION AND TRANSFER MODULE

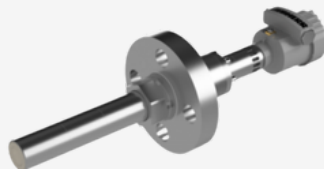
LIEBHERR



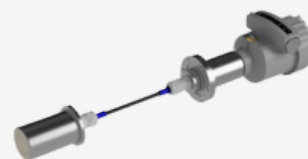
MOISTURE SENSOR P71-HD FOR FOOD APPLICATIONS

LIEBHERR

**LITRONIC-FMS P78-E
PLANAR MOISTURE SENSOR**

LIEBHERR

**MOISTURE ROD SENSOR
P45-GD**

LIEBHERR

**PLANAR MOISTURE SENSOR
P45-GD**

CASE STUDY

LIEBHERR P78 MOISTURE MONITORING ON DIGESTATE DRYERS

Process Instrument Solutions successfully supplied and commissioned a Liebherr P78 moisture monitoring system at the digestate drying facility of British Sugar's Bury St Edmunds plant. Accurate moisture measurement is critical to prevent costly production disruptions. The facility encountered difficulties in monitoring moisture levels within an enclosed dryer, where digestate continuously moves at varying depths and endures high temperatures and abrasive conditions.

To address these challenges, the P78 sensor was installed on a sliding shoe with an elbow-mounted design, ensuring constant contact with the material as product levels fluctuate. A high-temperature variant of the sensor was also selected to guarantee reliable operation in this demanding environment. By providing continuous, real-time moisture measurements, the system enables operators to optimize the drying process, thereby preventing "brown outs" due to under-dried material and avoiding unnecessary over-drying.

The implementation of this system results in improved product quality, enhanced process control, reduced downtime, increased production efficiency, and significant energy savings through more precise dryer operation.





HUMIDITY

Humidity measurement instrumentation delivers precise monitoring of relative humidity and temperature to maintain product quality, optimise environmental conditions and protect sensitive equipment. Essential for HVAC (Heating, Ventilation, and Air Conditioning), pharmaceuticals, food and beverage, laboratories, electronics manufacturing and cleanrooms, these sensors ensure stable, controlled atmospheres across critical processes. Process Instrument Solutions provides reliable humidity measurement solutions designed for demanding industrial environments.

MÜLLER
INDUSTRIE - ELEKTRONIK GMBH



CHANNEL HUMIDITY SENSOR

MÜLLER
INDUSTRIE - ELEKTRONIK GMBH



CLIMATE SENSOR FOR ROOMS

MÜLLER
INDUSTRIE - ELEKTRONIK GMBH



HUMIDITY SENSOR MEHS-T

MÜLLER
INDUSTRIE - ELEKTRONIK GMBH



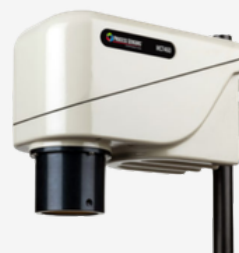
HUMIDITY SENSOR MEHS

MÜLLER
INDUSTRIE - ELEKTRONIK GMBH



MODULAR INTELLIGENT WEATHER STATION MD-IWS

PROCESS SENSORS
CORPORATION



MCT460 TRANSMITTER



WEIGHING

Weighing instrumentation plays a vital role in industrial process control, providing accurate and reliable measurement of weight and load across a wide range of applications. These systems are essential for ensuring precision in batching, filling, dosing, and inventory management processes.

We supply a comprehensive range of weighing instrumentation, including load cells, weighing transmitters, junction boxes, and complete weighing systems designed for industrial environments. These solutions are suitable for use in sectors such as manufacturing, food and beverage, chemicals, water treatment, and logistics.

SIEMENS



MILLTRONICS MMI BELT SCALES

SIEMENS



SIWAREX WT500 WEIGHING TERMINAL FLOWMETER FOR SOLIDS

SIEMENS



SIWAREX WT241 WEIGHING TERMINAL

SIEMENS



SIWAREX DB LOAD CELL JUNCTION BOX

SIEMENS



LOAD CELL SIWAREX WL260 SP-S SB

SIEMENS



LOAD CELL SIWAREX WL260 SP-S SC

MÜLLER
INDUSTRIE · ELEKTRONIK GMBH



**STRAIN GAUGE BRIDGE
AMPLIFIER SIL3 + PL"E"
SMM-DR**

MÜLLER
INDUSTRIE · ELEKTRONIK GMBH



**LOW PROFILE LOAD CELL
ASSEMBLY (SILO-V)**

MÜLLER
INDUSTRIE · ELEKTRONIK GMBH



**MODULAR UNIVERSAL LOAD
CELL SIL3 + PL"E" MULC**

CASE STUDY

COMPLETE WEIGHING SOLUTION FOR A QUARRY OPERATION

Process Instrument Solutions successfully delivered a comprehensive weighing solution for a quarry operation by supplying, installing, and commissioning two in-line belt weighing systems. These advanced systems enable accurate, real-time monitoring of aggregate flow rates, which is crucial for maintaining operational efficiency.

The project required meticulous modifications to existing conveyors, ensuring seamless integration of the new weighing equipment with the site's SCADA system. This involved careful planning and execution to manage both mechanical and electrical installation tasks effectively.

Despite facing challenging weather conditions that could have hindered progress and stringent project deadlines that required precise coordination, the solution was completed on schedule and within budget. This achievement speaks to the dedication and expertise of the team involved in the project.

The newly implemented system now offers reliable weight measurement, totalisation, and loading data, which significantly enhances the efficiency and precision of lorry loading operations. This improvement supports the quarry's ongoing productivity and operational control, providing a robust foundation for future growth and development.





IOT WIRELESS & REMOTE MONITORING

IoT wireless systems for process instrumentation enable real-time data collection, remote monitoring and seamless connectivity across industrial operations. These solutions reduce wiring costs, simplify installation and provide instant access to critical measurements such as pressure, temperature, flow and level. Ideal for oil and gas, water and wastewater, chemical processing, manufacturing and energy, wireless IoT technologies enhance visibility, improve decision-making and support predictive maintenance. Process Instrument Solutions offers reliable, industry-ready IoT wireless systems tailored to modern process demands.

SIEMENS



**SITRANS SAM IQ
CONFIGURATION SOFTWARE**

SIEMENS



**SITRANS AW050
BLUETOOTH ADAPTER**

SIEMENS



**SITRANS MS200 VIBRATION
SENSOR**

SIEMENS



**SITRANS SCM IQ
CONFIGURATION SOFTWARE**



"Their customer service was excellent, and I felt that at all times during our project they were engaged and quick to respond."

- B. Moana

SIGNAL GENERATORS AND CONDITIONING

SIEMENS



HART
COMMUNICATION PROTOCOL



I200 OUTPUT ISOLATOR WITH HART

SIEMENS



SITRANS TH320
TRANSMITTER

SIEMENS

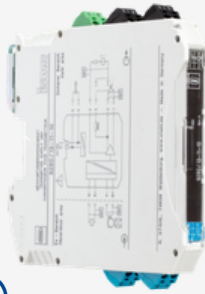


HART
COMMUNICATION PROTOCOL



SITRANS TH420 HART
TEMPERATURE
TRANSMITTERS

SIEMENS



I100 ISOLATING POWER
SUPPLY WITH HART

PRECISION
DIGITAL



PD9502 LOW-COST SIGNAL
GENERATOR

PRECISION
DIGITAL



PD420 PANEL MOUNT 4-20MA
SET-POINT GENERATOR

PRECISION
DIGITAL



PD9501 MULTI-FUNCTION
CALIBRATOR

PRECISION
DIGITAL



PD420-461 4-20 MA SET
POINT GENERATOR AND
VALVE POSITIONER

MÜLLER
INDUSTRIE - ELEKTRONIK GMBH



PROCESS CALIBRATOR
MULTIFUNCTION PC-MF

PROCESS PROTECTION

SIEMENS



**MILLTRONICS MFA 4P
MOTION FAILURE ALARM
CONTROLLER**

SIEMENS



**MOTION SENSING PROBES
MSP-7**

SIEMENS



**STIRANS AS100 ACOUSTIC
BLOCKAGE SENSOR**

SIEMENS



**SITRANS CU02 ALARM
CONTROL UNIT**

SIEMENS



**SITRANS DA400 ACOUSTIC
DIAGNOSTIC UNIT**

SIEMENS



**SITRANS WM100 ALARM
SWITCH**

PRECISION
DIGITAL



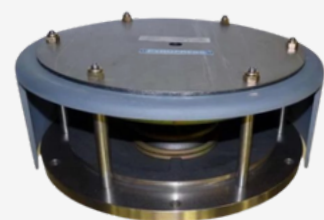
**SITRANS WM300 MOTION
FAILURE ALARM**

PYROPRESS®



**CRANKCASE EXPLOSION
RELIEF VALVE**

PYROPRESS®



**EXHAUST EXPLOSION RELIEF
VALVE**

UNPARALLELED SERVICES & SOLUTIONS



MAINTENANCE
& CALIBRATION



FULL TURNKEY
SOLUTIONS



ENGINEERING
DESIGN



CONTROL & AUTOMATION
SOLUTIONS



COMMISSIONING &
START-UP

HOW PROCESS INSTRUMENT SOLUTIONS SERVICE TEAM CAN HELP?

At Process Instrument Solutions, our CompEx-trained technicians and engineers design, install, program, tune and troubleshoot control instrumentation systems, ensuring comprehensive customer support. UKAS-accredited laboratories calibrate our equipment with precision traceable to national standards. With fully equipped vans, comprehensive site insurance and partnerships with world-leading brands, we guarantee unmatched quality, reliability and a hassle-free experience. We document our work to give you peace of mind. Process Instrument Solutions delivers expertise, precision and reliability, tailored to meet your needs. Experience the difference with us.



SOLUTIONSPLUS

THE NEW WAY TO PAY

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OVER 2 TO 5
YEARS

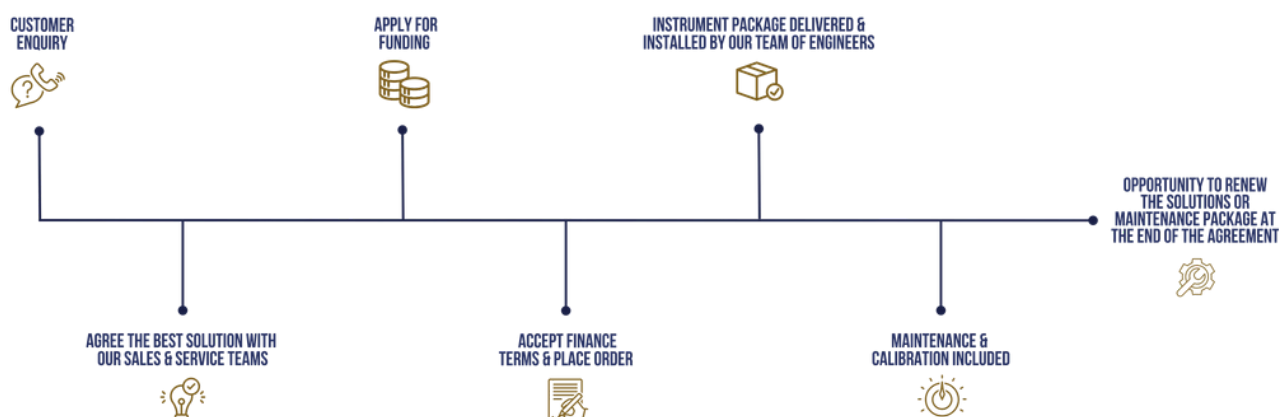
FOR
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EXPERTS

The new way to pay from Process Instrument Solutions. SolutionsPLUS offers a complete technical and financial package for projects. With a fixed monthly fee and the assurance of a guaranteed and accurate measurement, your project will be supplied, installed, maintained and fixed/ replaced if necessary, ensuring peace of mind and total reassurance.

FEATURES AND OPTIONS	FIXED MONTHLY PAYMENTS	INSTRUMENTS PROVIDED	INSTALLATION & COMMISSIONING	CALIBRATIONS & MAINTENANCE	CONTRACT DURATION WARRANTY	ONLINE TECHNICAL SUPPORT	ACCESS TO PI PORTAL	REPAIR OR REPLACEMENT*
SOLUTIONSPLUS	✓	✓	✓	✓	✓	✓	✓	✓
INSTRUMENT PURCHASE		✓						
SERVICES			✓	✓				

*Only covers manufacturing defects (damage or misuse excluded)





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INSTRUMENT
SOLUTIONS**



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