



AUTOMATED

PROCESS

L I M I T E D

...innovative know-how

- **Temperature Measurement**
- **Pressure Measurement**
 - **Level Measurement**
 - **Flow Measurement**
 - **Liquid Analysis**
- **Position Measurement**
Motion Measurement
- **Loadcells and Weighing**
Automation Systems
- **Condition Monitoring Systems**
 - **Dew Point, Humidity & Temperature Measurement**

**Industrial
Process
Measurement**

INDUSTRIAL PROCESS MEASUREMENT



- o Temperature Measurement
- o Pressure Measurement
- o Level Measurement
- o Flow Measurement
- o Liquid Analysis
- o Position Measurement
- o Motion Measurement
- o Loadcells and Weighing Automation Systems
- o Condition Monitoring Systems
- o Dew Point, Humidity & Temperature Measurement



bürkert
FLUID CONTROL SYSTEMS

swan
ANALYTICAL INSTRUMENTS

B&C
electronics



Danfoss

Labom

scaime



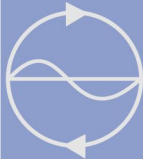
BD|SENSORS
Endress+Hauser



CS INSTRUMENTS



- 0'



**AUTOMATED
PROCESS**
LIMITED
...innovative know-how

- 0 Diaphragm Seals
- 0 Fittings & Accessories for Installation of Pressure Instruments into Pipes and Tanks
- 
- Labom
- Danfoss
- BD SENSORS
pressure measurement
- 

LEVEL MEASUREMENT

- o Conductive
- o Impedance Spectroscopy
- o Capacitive
- o Vibration
- o Hydrostatic
- o Ultrasonic
- o Radar
- o Guided Radar
- o Radiometric
- o Electro-mechanical
- o Float



**AUTOMATED
PROCESS**
LIMITED
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- This collage displays a variety of industrial flowmeters and their associated electronics. The devices include:
- Ultrasonic Flowmeters:** A large horizontal stainless steel unit with a yellow display, and a smaller blue and white unit with a digital screen.
 - Electromagnetic Flowmeters:** A blue and white unit with a digital display, and a green unit with a circular display.
 - Differential Pressure (DP) Transmitters:** A white wall-mounted unit with a large screen, and a blue handheld unit with a keypad.
 - Other Flowmeters:** A blue and white unit with a digital display, and a silver unit with a digital display.
 - Control Units:** A blue handheld unit with a keypad, and a silver unit with a digital display.



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INSTRUI

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LIQUID ANALYSIS



**AUTOMATED
PROCESS
LIMITED**
...innovative know-how

PRODUCTS: | Analytical Sensors/Transmitters | Analysis Transmitters/Controllers |
Analysis System Panels – Single or Dual Parameters | Analysis System Panels – Multiple
Parameters & Streams | Analytical Flow Cells, Holders and Sample Accessories |
Handhelds and Portables | Waste Water Samplers |

MEASUREMENT PARAMETERS

| Ammonium | Chlorine / Ozone / Chlorine dioxide | Conductivity & Resistivity | Fluoride | Hydrazine /
Carbohydrazide | Hydrogen | Nitrate | Organics (UV254) | Oxygen (dissolved) | pH | Phosphate |
Redox (ORP) | Silica | Sodium | Turbidity | Total Organic Carbon (TOC) | Total Inorganic Carbon (TIC) |
Chemical Oxygen Demand (COD) | Total Alkalinity @pH 4.3 | Aluminum Al | Ammonium NH₄+ |
Chemical Oxygen Demand (KMnO₄) | Chlorides Cl⁻ | Color | Phenol | Total Hardness TH | Iron Fe |
Manganese Mn (II) | Suspended Hydrocarbon | Hydrocarbon |

APPLICATIONS

| High Purity Water | Feedwater, Steam & Condensate | Pharma Water | Potable Water | Surface Water |
Sea Water | Pool & Sanitary | Cooling Water | Waste Water & Effluents | Industrial Processes |

B+C
electronics

swan
ANALYTICAL INSTRUMENTS

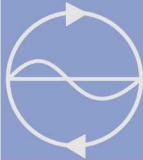
Seres OL
A Swan Company

bürkert
FLUID CONTROL SYSTEMS



POSITION MEASUREMENT

- o Inductive Sensors
- o Capacitive Sensors
- o Magnetic Sensors
- o Cylinders Sensors
- o Ultrasonic Sensors
- o Photoelectric Sensors
- o Photoelectric Fork/Angle Sensors
- o Laser Sensors
- o Distance Sensors
- o Fibre Optic Sensors and Amplifiers
- o Photoelectric Sensors for Specific Applications
- o Touch Sensors
- o Feedback Systems for Valves and Valves Actuators
- o Switching Amplifiers



MOTION MEASUREMENT

- o Encoders
- o Speed Sensors
- o Inclination Sensors
- o Systems for Evaluation of Standard Signals
- o Systems for Signal Conversion
- o Signaling and Display Systems
- o Pulse Evaluation Systems
- o Sensors for Conveyor Monitoring



LOAD CELLS AND WEIGHING AUTOMATION SYSTEMS



We offer weighing solutions for optimising your productivity and the availability of your equipment. Our products, designed to integrate into automated systems, can be used for level control in silos or tanks, continuous dosing, filling and sorting by weight. They therefore enable optimization of the entire production chain.

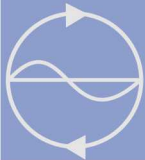
- o Analogue Load Cells
- o Digital Load Cells
- o Mounting Kits
- o Weighing Indicators & Controllers
- o Connection Accessories
- o Weighing And Configuration Software
- o Weighing Applications



CONDITION MONITORING SYSTEMS

The ifm product range comprises systems for monitoring vibration, oil quality, compressed air and water consumption. Vibration sensors detect damage to rolling element bearings and gears or unbalance in drives and rotating machine parts. Systems for oil quality monitoring assist in the early detection of water and abrasion particles in hydraulic liquids and lubricants to prevent operational disturbances or damage to hydraulic power units, pumps, valves, cylinders and machines.

- o Systems for vibration monitoring and diagnostics
- o Flow meters for compressed air
- o Flow meters for water
- o Systems for oil quality monitoring
- o Pulse evaluation systems
- o Systems for evaluation of standard signals
- o Signaling and display systems
- o Systems for signal conversion



DEW POINT, HUMIDITY AND TEMPERATURE MEASUREMENT

Dew point, humidity and temperature measurement and control for air, compressed air and gases applications.

APPLICATIONS:

air / compressed air | carbon dioxide (CO₂) | methane (CH₄) | nitrogen (N₂) | oxygen (O₂) | natural gas | argon (Ar) | hydrogen (H₂) | other gases on demand

PRODUCTS:

- o Dew Point Sensors
- o Humidity & Temperature Measurement and Control System – ProSens Line
- o Humidity & Temperature Measurement and Control System – DAQ Systems – TRS



OUR INDUSTRIAL SOLUTIONS AND SERVICES OFFERING



1. Liquid/gas storage/buffer tank level measurement and control
2. Liquid/solid dosing/filling/batching systems
3. Utility liquid/gas metering and inventory systems
4. Fluid loading and unloading systems
5. Industrial safety systems
6. Energy monitoring and management systems
7. Condition monitoring and control systems
8. Instrument maintenance and calibration services
9. Process plants/machines instrumentation and control
10. Compressed air quality solution according to ISO8573
11. Compressed air/gas leak detection and control
12. Control valves system design, assembly and services
13. Industrial wireless and IoT systems
14. Motors, pumps and fans monitoring and controls
15. Electrical panel building components, accessories and services

INDUSTRY

- Food and Beverage
- Pharmaceuticals
- Cement and Chemicals
- Plastics, Printing and Packaging
- Marine, Oil & Gas
- Power and Energy



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