

## **PRODUCT OVERVIEW**



## **TEST & MEASUREMENT SOLUTIONS** FOR MEASURING PROFESSIONALS

www.kelfos.in

## **An Innovating JOURNEY**

#### ABOUT US

Kelfos Instruments India Pvt. Ltd. is a recognized expert in the Test and Measurement Instruments for industries with advanced and innovative test and measurement needs. We are one of the leading solution provider and suppliers of high quality Electronic, Process Control, automation & Electrical test and measurement instruments.

Kelfos Instruments is based at Pune, Maharashtra with an experience of more than 10 years in Test & measurement Industry. Kelfos has also become a major supplier for HVAC industries, refrigeration, airflow, and environmental, electrical industries monitoring instruments for markets as diverse as chemical, food and beverages, pharmaceutical, biotech, high energy, power, automotive, auditors, consultants, Institutes and many more.

We are primarily in to Electronic & Electrical Test and Measurement Industry serving to all verticals of Industries like:

- Power generation and utilities /Cement /Pulp & Paper / Metal & Steel / Heat & Power systems mfr.
- Plant engineering and construction / Pharmacy / Automobiles / Defence / Education / Nongovernmental Inspection.
- Facility Management / Oil and Gas / Chemical / Governmental monitoring authorities etc....

We have the experience to providing the solutions for Electrical Maintenance, HVAC, Refrigeration, Process Engineering, Environmental Monitoring, Plant Maintenance, Facility Management for markets as diverse as Chemical, Food & Beverages, Pharmaceutical, Power, Steel, Automotive, Energy Auditors, Transportations, Cold Storage, Plant Automation - Electrical –Instrumentation, Industrial Engineering Products and many more...

#### **OUR STRENGTH**

The strength of "KELFOS" is its strong sales & technical team. We constantly emphasis on customer satisfaction and we achieve this with our understanding of the customer's requirement as per the application and providing with best optimized solution. And this becomes possible through continuous learning process to keep ourselves upgrade to the industrial application needs. We have been into this field since last 9 years in Pune and other cities.

#### **OUR MOTIVE**

Wealth and quality of living in all respects require constant care, understanding and innovative solutions. Our Motive is the measuring solutions...

At **KELFOS** we exactly understand the customer requirements; therefore, a central task is to pay constant attention to new technology therefore our highest priority is Innovation.

We as market leader take everything concerned with the product seriously: service, support and availability. We commit - before sale, after sale and in all phases of application. **KELFOS** known for its determined will to make tomorrow better than today with quality products & services.

We believe in quality, reliability, customer service & satisfaction:

"Coming Together is Begining, Keeping Together is Progress, Working Together is Success"

# KELFOS Instruments India Pvt. Ltd. Authorized Channel Partner / Distributor of European Principals...



#### **Baumer India Private Limited**

The Baumer sales units as well as R&D and production centres will be servicing you all over the world. Where no Baumer organization is present, our close-knit distribution network ensures on-site and qualified



#### **Testo India Private Limited**

Testo India Pvt. Ltd. Established in 2006 is a 100% subsidiary of Testo, Germany. With its head office located in Pune, it caters to different industrial sectors



#### Sonel Instruments India Pvt. Ltd.

SONEL was established in June 1994. The company's founders were electrical engineers - people with a good knowledge of the market needs for specialized test equipment. In 1998 company's name and its legal status



#### Jumo India Private Limited

The JUMO trade name has achieved outstanding international importance in control, instrumentation and automation technology. It is therefore decided to adapt the formal name of the company within Germany



**Polwax International Co.** Polwax International Co. is a brand based in India, specialized in development and manufacture of innovative technology.



WellKonix Process Automation & Technologies Co. Wellkonix is a leading, privately-owned global company that designs, develops and manufactures of process automation and control instruments & solutions



#### Honeywell International Inc.

Honeywell International Inc. is an American publicly traded, multinational conglomerate corporation headquartered in Charlotte, North Carolina. expert support.



#### Wohlter Technologies

Wohlter technologies is a manufacturer of temperature sensors like RTD , Thermocouples , Pressure transmitters, for dairy , food, pharmaceuticals industries.

#### INSTRUMENTATION | AUTOMATION | ELECTRICAL | MECHANICAL | IT SUPPORT

#### **Measuring Parameters**

- Temperature
- Pressure
- Humidity
- Level
- Flow
- Current
- Distance
- Air Flow
- Air Velocity
- Vibration
- Rpm
- Gas Detection
- Solar
- Sound
- Lux
- Thermal Imager
- Moisture
- Leakage

- Dew Point
- Earth Testing
- Flue Gas Analysis
- Power Quality
- Voltage | Resistance
- Insulation
  - PH | TSS | BOD | COD
  - DO | TDS
  - Thickness
  - Hardness
  - Conductivity
  - Rtd | Pt 100/1000
  - Electrical - Co / Co<sub>2</sub>
  - Oxygen
  - Compressed Air & Gas
- Thermocouple K, N, J Differential Pressure
  - Indicator & Controller
  - Dataloggers

## **TEST & MEASUREMENT SOLUTIONS**

















The Baumer Group is one of the worldwide leading manufacturers of sensors, encoders, measuring instruments and components for automated image-processing. As an ownermanaged family business, we employ about 2700 workers worldwide in 38 subsidiaries and 19 countries. Our customers include small, highly specialized plant and machine construction companies, large industrial enterprises and groups of companies operating at global level. The best in their field. In Europe and throughout the world. For over 60 years. Worldwide, customers trust the know-how of the Baumer Group. The Baumer brand stands for partnership, precision, a pioneering spirit, a broad range of services and international awareness.

We are committed to provide best solutions and services to our Indian customers. Baumer India offers a wide product range that includes:

Object detection | Distance measurement | 2D / 3D sensors | Industrial cameras / image processing | Identification | Rotary encoders / angle sensors | Inclination / acceleration sensors | Process sensors | Force sensors/strain sensors | Format adjustment | Counters / displays



DISTANCE MEASUREMENT



## Sensors for detecting distances & distance information from the $\mu m$ range to over 40 m.

- Optical distance sensors
- Ultrasonic distance sensors
- Radar sensors
- Inductive distance sensors
- Linear magnetic encoders
- Measuring wheel encoders
- Cable transducers
- Accessories sensors

IMAGE PROCESSING / IDENTIFICATION



Camera-based inspection, identification & process control. • Industrial cameras

- VeriSens vision sensors
- Code reader (1D / 2D)
- Custom imaging components
- Accessories Image processing / Identification
- Text reader (OCR/OCV)
- Software Starter Kits Tools



Measurement of one or more object dimensions & detection of object form characteristics such as height, width, length, gap, profile or edge information.

- PosCon profile sensors
- Light-band sensors
- VeriSens vision sensors
- Accessories sensors

#### FORCE / STRAIN SENSORS



#### Force & strain measurement in

- machines, installations & tools.Strain sensors
- Force sensors
- Piezoelectric sensors
- Accessories force / Strain sensors

#### INCLINATION/ACCELERATION SENSORS



Measurement of inclination, acceleration & vibration.

- Inclination sensors
- Vibration / Acceleration sensors



Display & adjustment of position of stops & formats in machines and systems.

- Spindle positioning systems
- Compact drives

#### **ROTARY ENCODERS/ANGLE SENSORS**



Measuring & monitoring of rotary speed & rotary shaft positions at machines, installations & electrical drives.

- Industrial encoders absolute
- Industrial encoders incremental
- Bearingless encoders
- Motor feedback encoders
- HeavyDuty encoders absolute
- HeavyDuty encoders incremental
- HeavyDuty tacho generators / resolvers
- HeavyDuty speed switches / monitors
- HeavyDuty combinations
- Hall and speed sensors
- Programmable encoders
- Functional safety certified encoders

SENSORS FOR PROCESS INDUSTRY

• Accessories

#### **PROCESS SENSORS**



Automation of process technology with transmitters, sensors & measuring equipment for the parameters of pressure, temperature, fill level, flow & conductivity of gaseous, liquid, paste-like & granular media.

- Level measurement
- Pressure measurement
- Temperature measurement
- Flow measurement
- Conductivity measurement
- Accessories process sensors

#### **OBJECT DETECTION**



Sensors, proximity switches & light barriers for object & position detection.

- Inductive proximity switches
- Light barriers / Diffuse sensors
- Fiber optic sensors
- Capacitive sensors
- Ultrasonic sensors
- Magnetic and cylinder sensors
- Precision mechanical switches
- Edge measurement and detection
- Accessories sensors



#### **ENCODERS & ANGLE MEASUREMENT**











#### ALPHAPROX INDUCTIVE SENSORS



#### POSCON HM





GERMANY

Testo SE & Co. KGaA, a world leader in design, development and manufacturing of electronic portable test and measuring instruments. Backed by more than 60 years of measurement engineering experience, Testo as a group, headquartered in Germany, has more than 3000 employees, 33 subsidiaries and more than 80 representatives worldwide.

We are committed to provide best solutions and services to our Indian customers. Testo India offers a wide product range that includes:

Portable Measuring Instruments and Systems for: Temperature, Humidity, Pressure, Air velocity, RPM, Sound, Light, Current, Voltage & Resistance | Transmitters for Humidity & Temperature, Differential pressure, Dew point of Compressed Air, Compressed Air Flow Meters. | Data Loggers and Wireless Data Monitoring System - Saveris. | Portable Flue Gas Analyzers for Combustion and Emission Analysis. | Thermal Imagers for Predictive and Preventive Maintenance With the above full-fledged product range for almost all physical parameters.





- Infrared measuring instruments
- Surface thermometers
- Air temperature measuring instruments
- Penetration thermometers
- Immersion thermometers
- Temperature probes
- Self-adhesive temperature foils

- Flue gas analyzer
- Industrial emission measurements
- Particulate matter measurement
- Leak detectors
- Smoke tester
- Nano-particles



• Vane anemometer

- Thermal anemometer
- Volume flow hood
- Differnetial pressure

#### PRESSURE MEASUREMENT



- Absolute pressure instruments
- Differential pressure instruments
- Leak detectors (gas and water)
- Air flow
- Manifolds
- High pressure gauge
- Vacuum measuring instruments
- Leak detectors for common refrigerants
- Digital barometer

#### ELECTRICAL MEASUREMENT



- Multimeters
- Clamp meters
- Voltage tester
- Non-contact voltage tester

#### HUMIDITY MEASUREMENT



- Hygrometers
- Material moisture meters

#### An Innovating JOURNEY

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#### Co2, CO, LIGHT, SOUND, RPM

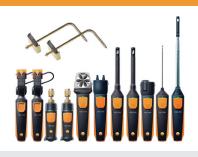


- CO2 measuring instruments
- CO measuring instruments
- Luxmeters
- Sound level meters
- Tachometer
- Stroboscopes
- Multifunction measuring instrument

- Testo 865 / Testo 868
- Testo 871
- Testo 872
- Testo 875-1i
- Testo 875-2i
- Testo 882
- Testo 885
- Testo 890



- Temperature transmitter
- Humidity transmitter
- Pressure transmitter
- Differential pressure transmitter
- Compressed air meter



Testo's Smart Probes: Compact professional measuring instruments for your smartphone

<ul> <li>Cooking oil tester</li> <li>pH measuring instruments</li> </ul>
CALIBRATORS



- Thermator Temperature calibrator
- Huminator Humidity calibrator
- Pneumator Pressure calibrator
- Mini wind tunnel Air velocity calibrator

#### DATA LOGGERS & MONITORING



- Temperature data loggers Humidity data loggers
- Wi-Fi data logger system
- Data monitoring system
- USB data logger Wireless data loggers
- Pressure data loggers CO2 data logger
- UV data loggers
- Shock data logger

#### SERVICES/CALIBRATION & REPAIR

Located at our head office in Pune, Testo India has high quality service & calibration lab. Instruments are calibrated with world class reference instruments following procedures as per ISO 17025 and serviced locally maintaining international standards.





SONEL was established in June 1994. The company's founders were electrical engineers - people with a good knowledge of the market needs for specialized test equipment. In 1998 company's name and its legal status had changed and as a result SONEL S.A. was established.

Currently the company operates within the widnica Sub-Zone of the Wałbrzych Special Economic Zone.

The mission of SONEL S.A. is to become a modern, innovative and globally competitive company supplying high-quality products and services which meet the expectations and requirements of demanding customers. Our main goal is to manufacture ergonomic, specialized measuring instruments which improve the electrical safety and work conditions. The mission of SONEL S.A. is also implementation of a natural process of expansion and dissemination of technological development in harmony with the environment.



#### ELECTRICAL SAFETY MEASUREMENTS



- Multi-function instruments NEW! Sonel MPI-536
- Insulation resistance measurements Accessories
- Fault loop measurements Accessories
- Earth (ground) measurements
- Sonel Reports Plus software Accessories

#### **TEMPERATURE MEASUREMENTS**



- Pyrometers Accessories
- Sonel ThermoAnalyze software NEW! Sonel ThermoAnalyze 3
- Non-contact temperature

#### **HIGH VOLTAGE MEASUREMENTS**



• Partial discharges meters

• High voltage insulation testers

#### LOW RESISTANCE MEASUREMENTS



• Low resistance measurements are made when testing the resistance of the follow ing connections: welded, equipotential, contacts, cable connections and coils of low resistance. Meters for low resistance measurement are also used to test motor and transformer windings. These tests also include testing the quality of solder

#### CABLE LOCATOR



• The diversity and concentration of underground infrastructure are still growing. Identifying underground systems was never as difficult and important a task as it is today. Location allows us to infer the actual position of an underground system and determine the proper location for current works, as well as to prevent accidents caused by damage to the under ground objects.

#### **ILLUMINANCE MEASUREMENTS**



• Our perceptive capability and psychophysical condition depend to a very large extent on the surrounding environment

#### An Innovating JOURNEY

#### POWER QUALITY ANALYSIS



- Top class of mains network analyzer with transients capture
- Class A high accuracy mains network analyzer
- Stand alone Class S mains network analyzer
- Portable Class S analyzer for basic and long term analysis for fast diagnosis

#### LABORATORY EQUIPMENT



• Standard programmable resistors are a source of high resistances used as standard equipment for calibration and testing of analog and digital insulation resistance meters.

#### SAFETY OF ELECTRICAL EQUIPMENT



- Protective conductor resistance measurement,
- Residual voltage measurement
- Residual voltage measurement,

#### MULTI-TASK EQUIPMENT



#### • Clamp meters

- Multimeters Accessories
- Voltage testers
- Phase sequence testers
- Leak and electrical discharge detection
- Demonstration boards





#### THERMAL IMAGER



- Fever detection Thermal imager
- Industry Thermal imagers

## INSULATION QUALITY ANALYZER



• High immunity to disturbances - in

- compliance with standard EN 61326,
- Setting the limits of minimal insulation resistance
- Measurement of leakage current during insulation resistance measurement,





GERMANY

JUMO is one of the leading manufacturers in the field of industrial sensor and automation technology. Our innovative product range includes the entire measuring chain from sensors to automation solutions for temperature, pressure, liquid analysis, flow rate, filling level and humidity. JUMO always aims to provide our customers with the optimal solution for process reliability, energy efficiency and cost optimization. In just a few decades, JUMO has grown from minuscule beginnings to become an internationally successful company.

Our instruments and systems are at work on all five continents.

They measure, control and record physical parameters in an extraordinarily wide range of industries and applications. User-friendly and reliable, in every quantity and version that is requested.

We are committed to provide best solutions and services to our Indian customers. Jumo India offers a wide product range that includes:

Temperature | Liquid analysis | Pressure | Level | Flow | Humidity | Control | Recording



TEMPERATURE



JUMO began manufacturing temperature probes in the mid 1960s and is now one of the world's leading manufacturers of durable, highquality, precision

- RTD temperature probes
- Thermocouples
- Head mount transmitter





JUMO offers the highest quality electrodes, transmitters & controllers for water/wastewater engineering, highly-purified pharmaceutical water, CIP cleaning & water for drinking, swimming pools & aquariums.

- PH transmitter
- DO transmitter
- Conductivity transmitter



Our product portfolio for pressure measurement extends from pressure sensors, pressure transducers, and pressure switches to

- Differential pressure transmitters
- Pressure transmitters
- Pressure switches



JUMO level measurement probes are used for hydrostatic filling level measurement in ventilated tanks or to determine levels in open waters. Differential pressure transmitters are used for pressurized filling level measurement in closed tanks.

- Level transmitters
- Level switch

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FLOW

The full breadth of JUMO's product portfolio allows you to measure, control,

and record flow velocities in gases, vapors, and liquids.

- Flow sensor Controller
- Indicators Flow measuring devices
- Paperless recorder Measuring, control and automation system

#### RECORDING



For on-site documentation, JUMO paperless recorders enable you to capture, archive, and evaluate your process data with ease and security.

- Paperless recorder
- Measuring, control & automation system

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#### MONITORING



To reduce the residual risk for man, machine & the environment to an acceptable level, we offer electronic & electromechanical thermostats which can be implemented as temperature limiter & monitor or as safety switches, all tested & proven to DIN quality standards.

- Electronic
- Electromechanical

#### CONTROL



Different industries may have vastly different production processes, but they all need to control process variables such as temperature, pressure, humidity, flow, and level, and many cases require the highest levels of accuracy.

- Electronic
- Electromechanical

#### HUMIDITY



Humidity plays a crucial role in many industries. JUMO offers reliable measurement systems including hygro thermometers & hygrostats with either capacitive or hygrometric measurement methods to help monitor & achieve optimal humidity. Controller

- Paperless recorder





For automation JUMO offers a cleverly combined product spectrum of temperature transmitters, digital indicators, SCR power controllers/power switches via a complete measurement, control, & automation system through to plant visualization software.

- Displaying
- Transmitter















ITALY

Polwax International Co. is a brand based in India, specialized in development and manufacture of innovative technology. Thanks to highly qualified employees and continuous innovation, Polwax has made a name for itself in global markets through its products and services. We know: Our success is also an obligation. We accept this challenge decisively, with creative expertise, and with the courage always to be prepared to tread new paths.

Polwax is the emerging company which provides the support and sustainable solution in Process and industrial customer's performance with measurable results. Our corporate office is located in Navi Mumbai. From the beginning it has concentrated on three basic parameters like Pressure, Flow and Temperature technology. The basic rules have always been: High Quality, High Flexibility, Product Reliability and competent support to customers. Manufacturing in customize dataloggers and recorders for industrial needs.



#### PAPERLESS RECORDER



- Easy Operation
- 5.6" Touch Screen Display
- LAN Network capability
- 12 / 16 / 24 / 32 / 48 Channel
- High speed Sampling
- Easy to Use
- Secure data recording

#### WIFI / GSM DATALOGGER



- Large-scale facility monitoring with
- the current Wi-Fi infrastructure
- Downloading data through USB
- Wi-Fi / GSM data communication
- 3.5" Touch Screen Display
- High speed Sampling
- Easy to Use

#### MOBILE DATALOGGER



- 5.6"" Touch Screen Display
- User Friendly Menu
- Easy to Carry
- Light Weight
- Cloud Dashboard for Data
- Monitoring
- USB Connection
- COB Connection
- Ethernet & MODBUS RTU Communication
- Relay & RS 485 Output

#### FIELD MOUNT- DATALOGGER



- Built-in Memorywhen Extended Capability
- Process Awareness Via Email and Snmp Warning
- Cost-effective data logger wifi / GSM/ Ethernet



MINI TEMP & HUMIDITY DATALOGGER

- Large display
  64000 Temperature & Humidity readings
- Measure up to 2 parameters
- Software for configuration and data processing is optional.
- 2-line LCD display
- Downloading data through USB cable

#### TRANSMITTERS



- Power Range: 12 to 30 VDC
- With and without Display
- 2-line LCD display that is
- Transmitter with 2 analog outputs
  Differential pressure measurement in the region of 100 Pa to 2 Barlsolation between outputs:



SINGAPORE

Wellkonix is a leading, privately-owned global company that designs, develops and manufactures of process automation and control instruments & solutions

The company was founded in 2016 as a producer of Liquid analysis systems mainly for agriculture & Industrial Applications . It has since expanded its product offering for a variety of industries, including filtration systems, reservoir management, air valves, water meters and fire protection solutions. Wellkonix products are marketed to some 10 countries through a number of subsidiaries and distributors around the world, including subsidiaries in the United States, the United Kingdom, Australia, Brazil, Mexico, China, France, Singapore, Italy, Spain and India.





- Magnetic flowmeter .
- Vortex flowmeter
- Turbine flowmeter
- Ultrasonic flowmeter
- Thermal mass flowmeter



- pH sensor and meter
- EC sensor and meter
- DO sensor and meter
- Turbidity sensor and meter
- TSS/SS sensor and meter
- Chlorine sensor and meter



- Ultrasonic level transmitter .
- Radar level transmitter
- Hydrostatic level transmitter



- Pressure transmitter
- Differential pressure transmitter .
- Digital pressure gauge .



- Recorder
- Process indicator
- Signal isolator
- Signal generator •



- Temperature sensor
- Temperature transmitter •
- **RTD & Thermocouple** •
  - Pitot Tube



USA

Honeywell International Inc. is an American publicly traded, multinational conglomerate corporation headquartered in Charlotte, North Carolina. It primarily operates in four areas of business: aerospace, building technologies, performance materials and technologies (PMT), and safety and productivity solutions

The corporation's current name, Honeywell International Inc., is a product of the merger of Honeywell Inc. and AlliedSignal in 1999. The corporation headquarters were consolidated with AlliedSignal's headquarters in Morristown, New Jersey; however, the combined company chose the name "Honeywell" because of the considerable brand recognition.[6] Honeywell was a component of the Dow Jones Industrial Average index from 1999 to 2008. Prior to 1999, its corporate predecessors were included dating back to 1925, including early entrants in the computing and thermostat industries

#### Honeywell BluTag 360 ( WHO approved ) Single & Multi use Temperature Datalogger





- Proprietary software supporting global data integrity & Security standards
- USB Interface for Connectivity
- Accurately measures internal conditions of the shipment
- Single dashboard view on past shipment records
- Designed for reusability and repeatability
- Calibration Validation Certificate traceable to NIST Standards
- Check complete history from the start to end of the shipment
- Compliant with global standards: CE, RTCA/D0160G, WEEE

Honeywell BluTag 360<sup>™</sup> is a state-of-the-art humidity and temperature monitoring data logger which comes equipped with a dedicated software platform that help your record and monitor critical parameters when your products are in transit. The product has been developed and manufactured in India under the Made in India initiative; our product is Made in India but Made for the World.



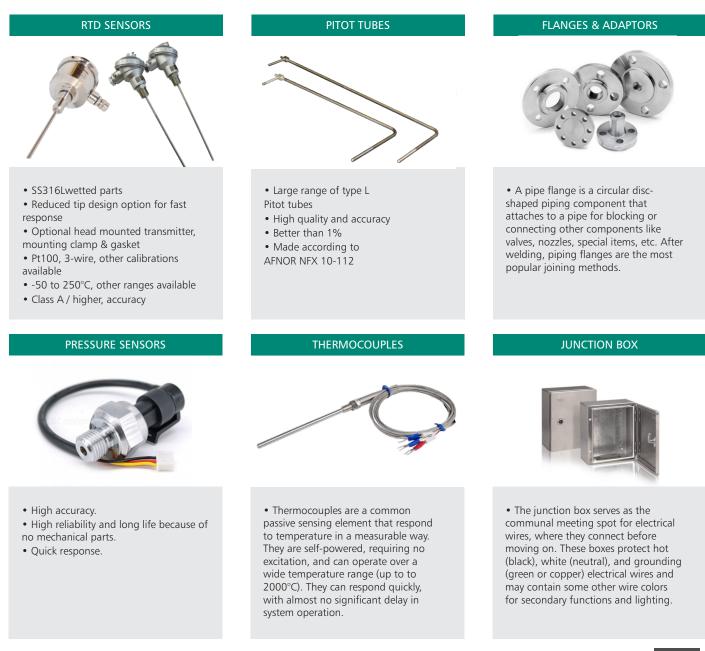


INDIA

WOHLTER technologies is a manufacturer of temperature sensors like RTD , Thermocouples , Pressure transmitters, for dairy , food, pharmaceuticals industries.

Wohlter works with our reliable partners of all over India, whom work at its headquarters in European Countries. This is where the solutions to demanding measuring tasks are being conceived and brought to realization: for chemical and pharmaceutical plants, the food industry, drinking water supply systems, sewage treatment plants, landfills, mining, power generation, oil platforms, ships and airplanes, HVAC-R, energy, Solar etc.





### ANNUAL PLANT MAINTENANCE CONTRACT SERVICE

- INSTRUMENTATION
- AUTOMATION
- ELECTRICAL
- MECHANICAL
- IT SUPPORT

#### POWER QUALITY ANALYSIS



#### AHU AIRFLOW BALANCING



#### WATER BALANCING



#### **CALIBRATION & REPAIR**



WASTE HEAT RECOVERY

ANALYSIS & SAVING

#### THERMOGRAPHY



#### **TEMPERATURE MAPPING**



#### FLUE GAS MEASUREMENT & ANALYSIS



#### COMPRESSED AIR & GAS, DEW POINT MEASUREMENT & ANALYSIS



OUR GROWTH PARTNERS		
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<b>UBILANT</b> LIFESCIENCES	<b>BOSCH</b>	Valmet 📏
ENKA ENKA LIMIN V OTIV	THERMAX	thyssenkrupp
	Schindler	<b>GOVIND</b> MILK & MILK PRODUCTS

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