

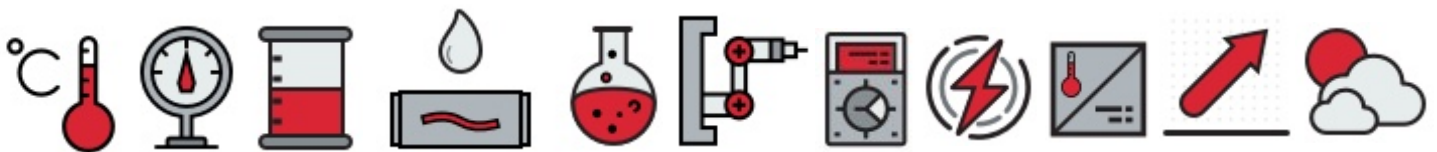
Intech[®]

Instruments

Instrumentation • Monitoring • Control



Summary Product Guide



Instrumentation for the Industry

Instrumentation Specialists

We help industries to monitor and control processes

Since **Intech Instruments Ltd** was founded in 1980, the company has grown from a quality service provider to an established leader in the technical marketplace, offering quality state-of-the-art products for measurement and control of **temperature, humidity, pressure, flow, level, pH** and **conductivity**.

Intech Instruments Ltd also provides customers with a complete line of **data acquisition, control** and **custom engineered products**.

We manufacture and supply industrial equipment for the monitoring and control of your processes.

Good reasons to choose Intech Instruments Ltd:

Experience

We know what we are talking about.

We have supplied many industries, dealt with many applications and have the expertise to help you with yours.

Intech Instruments Ltd is recognised for being a leader in the industrial instrumentation field in New Zealand.

Stock Inventory

Our extensive inventory ensures quick delivery.

We have an excellent record of getting the products required, when and where they are needed. Inventory levels are set to match our customers requirements.

Quality

Our products are reliable, rugged and last for years.

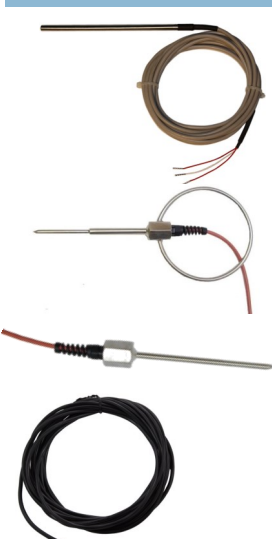




Intech Instruments Ltd stands behind its products 100%, because Intech products stand up to expectations. Our precision engineering and manufacturing ensure that your process will run smoothly with our equipment.

Service

Our exceptional customer service remains the cornerstone of our success.






The facilities of Intech Instruments Ltd exist to "facilitate" solutions to our customers needs.

TEMPERATURE

RTD		Thermocouple		Probe Accessories
With integral cable	With terminal head	With leads / connectors	With terminal heads	
				
<ul style="list-style-type: none"> • RTD Pt100/ Pt1000. • Temperature ranges from -190 to +260°C. • Common sheath diameters from 3.0mm to 6.4mm. • Sheath material 316SS. • Various Lead Insulation Materials (Silicone Rubber, Tefzel, PVC). 	<ul style="list-style-type: none"> • RTD Pt100. • Temperature range from -190 to +260°C. • Common sheath diameter is 6.4mm. • Sheath materials 304SS and 316SS. • Optional head-mount transmitters. 	<ul style="list-style-type: none"> • K, J, T and N types. • Temperature range from -200 to +1250°C. • Common sheath diameters from 3.0 to 6.0mm. • Various sheath materials. • Various lead materials. • Various plug and jack connectors. 	<ul style="list-style-type: none"> • K, J, T and N types. • Temperature range from -200 to +1250°C. • Common sheath diameters from 6.0 to 10.8mm. • Various sheath materials. • Various protection heads. • Isolated and bonded hot junctions. 	<ul style="list-style-type: none"> • RTD and Thermocouple Cable. • Compression glands different sizes. • Pockets. Welded construction. Lengths: 70, 120, 170, 220, 270mm. • Flanges: Small and large diameters available.




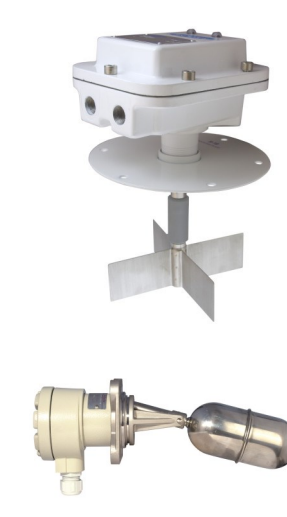
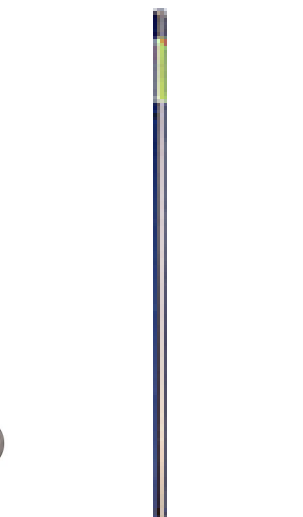
CONTROL & DISPLAY

LIQUID ANALYSIS

Controllers	Displays	pH Sensors	pH Controller/Tx	Conductivity Devices
Analogue /Digital	& Indicators		JUMO AQUIS 500	Sensors /Transmitters
				
<ul style="list-style-type: none"> • Analogue Controllers • Digital Controllers • Limit Controllers • Refrigeration Controllers • Servo Controllers 	<ul style="list-style-type: none"> • IN-uP4 Universal Input Indicator, Panel Mount, Programmable. • SD16A - Digital Indicator • LPI-LCD-6 - 4~20mA Panel Display - Loop Powered. 	<ul style="list-style-type: none"> • Jumo pH probes: Insertion, glass or plastic shaft electrode with silicone handle. • Industrial pH probes also available for insertion in tanks and pipes using process or waste water. 	<ul style="list-style-type: none"> • pH Transmitter / Controller. • Graphics display with background lightning. • Simple menu, guided 3 point calibration. • Full PID controller feature. • Wall or panel mount. 	<ul style="list-style-type: none"> • Transmitter / Controller for conductivity. • 3-way isolation (input, output and supply). • Jumo Conductivity sensor with 2-electrode principle and different measuring ranges.

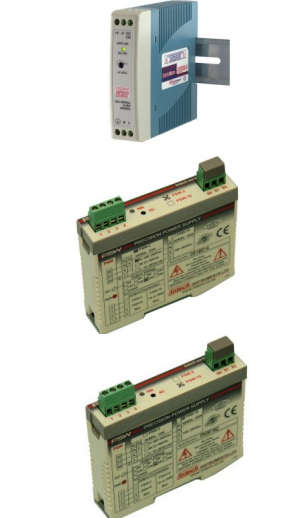
PRESSURE

LEVEL




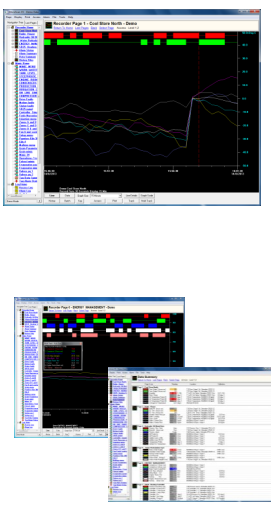

Transmitters		Differential	Transmitters	Switches	Data Logger
MIDAS / DELOS / P30			Hydrostatic /Ultrasonic	Rotary Paddle / Float	Water Level
					
<ul style="list-style-type: none"> Pressure transmitter 2 wire, loop powered. Protection IP65 + IP68 (M12). Different process connections. Many different ranges: -1 to 600Bar. 		<ul style="list-style-type: none"> Option to Dry non-corrosive gases and liquids. Different ranges available. 402005 Series, 404304 Series, LPN-DP Series and Midas DP10. 	<ul style="list-style-type: none"> Technologies available: <ul style="list-style-type: none"> - Capacitive - Guided Microwave - Hydrostatic (Submersible) - Hydrostatic Level/Pressure - Magnetostrictive - Non-contact Radar - Ultrasonic for liquids - Ultrasonic for solids 	<ul style="list-style-type: none"> Technologies available: <ul style="list-style-type: none"> - Conductive - Float - Magnetic Coupling - Magnetic Tracking - Optical - Rotary paddle - Vibrating Fork - Vibrating Rod 	<ul style="list-style-type: none"> Water Level & Temperature Data Logger. Three Channel High Resolution(12 bit). 304SS Case. Internal Temperature sensor. Download cable available. Software free from website.

FLOW






POWER CONTROL

Flow Meters	Flow Switches	Instrumentation	Power Supplies	Transducers
Continuous Flow	Point Flow	Batch/Totalisers/Loggers	PSW Series	RP Series
				
<ul style="list-style-type: none"> Insertion Paddle Flow Meters Oval Gear Flow Meters. Positive Displacement - Multi Pulse Flow Meters. Turbine Flow Meters. Ultrasonic Flowmeters 	<ul style="list-style-type: none"> Technologies available: <ul style="list-style-type: none"> - Paddle Type Flow Switches. - Inline Flow Switches. - Thermal Dispersion Flow Switches. 	<ul style="list-style-type: none"> Batch Controllers. Flow Data Loggers. Flow Pulse Amplifier. Flow Rate Displays & Totalisers. 	<ul style="list-style-type: none"> Instrument Quality Power Supplies. PSW-10-F: 24Vdc, 1.0A. PSW-2: Adjustable Input and Output Voltage, 200mA. PSW-10: Adjustable Output Voltage, 1A. Input Voltage: 100~264Vac/dc. 	<ul style="list-style-type: none"> Different models available for: <ul style="list-style-type: none"> - Current (AC Power) - Multifunction power - Power Factor - VAR - Voltage - Watt

DATA ACQUISITION

I/O Remote Stations		Data Loggers	SCADA Software	Cloud Based
2300 Series	2400 Series	HR / LCD Series	MicroScan SCADA	Eze System
				
<ul style="list-style-type: none"> • Low Cost I/O Modules. • Modbus RTU with Modbus TCP option. • Programmable ranges within input type. • Power Supply: 24Vdc. 	<ul style="list-style-type: none"> • Up to 16 Isolated Universal Analogue Inputs, with Plug In Terminals. Inputs are software programmable. • Each input can be configured for any of the following inputs: RTD Pt100/Pt1000, Thermocouple, mA, mV, V & Pulse/Digital. 	<ul style="list-style-type: none"> • Mini Portable Stainless Steel Data Loggers. • Large storage capacity. • <u>HR Series</u>: housed in a rugged 20mm diameter 304 Stainless steel tube. • <u>LCD Series</u>: handheld, high resolution (16 bit) with a liquid crystal display. 	<ul style="list-style-type: none"> • Real Time Monitoring for Industry. • Real Time Trends. • Customizable graphs and HMI Screens. • History and Search Screens. • Alarms and Events. • Compatible with Intech Remote stations & PLC support. 	<ul style="list-style-type: none"> • Cloud Based Monitoring. • Anywhere access, anytime. • Alerts and alarms. • Up to 40 inputs per ezeio controller. • Comms – Ethernet TCP/IP standard. 3G/GSM optional.

SIGNAL TRANSMITTERS & CONDITIONERS

Transmitters		Isolators	Telemetry	Calibrators
2 Wire	3 & 4 Wire	XI Series	Z-2400-A2 Series	Mr. Signal / IN-GEN
				
<ul style="list-style-type: none"> • Different types available: <ul style="list-style-type: none"> - AC Current - Bridge and Strain Gauge - DC Signal - Frequency - Light Intensity - Potentiometer - Pressure - Resistance - RTD PT100/Pt1000 - Thermocouple - Universal Input 	<ul style="list-style-type: none"> • Different types available: <ul style="list-style-type: none"> - Bridge and Strain Gauge - DC Signal - DC to Frequency - Frequency to DC - Frequency to Frequency - Maths Function - Potentiometer - Resistance - RTD PT100/Pt1000 - Thermocouple - Universal Input 	<ul style="list-style-type: none"> • Isolating 4~20mA Input to 4~20mA Output. • XID-L: Loop Powered. • XID-P1: 24Vdc Powered. • XI-L: Loop Powered. • XI-P: Input Powered. 	<ul style="list-style-type: none"> • Stand-alone wireless Data Links using ZigBee® technology for analogue and digital interface. • 3 Wireless nodes available: Input, Output & Repeating. • Antennas available. 	<ul style="list-style-type: none"> • Multifunctional Generators. • Input: mA, V, Hz, mV, TC, RTD. • Output: mA, V, XMT, Hz, mV, TC, 24V RTD. • Signal switch / calibrator.

ENVIRONMENTAL MONITORING

4~20mA Weather Sensors

Assembled Weather Stations

Wind Speed / Direction

THP Series

Mounting Options

4~20mA Output



- **WS3-CL:** Wind Speed Sensor.
- **WD-CL:** Wind Direction Sensor.

- **T-CL:** Temperature Sensor.
- **H-CL:** Humidity Sensor.
- **BP-CL:** Barometric Pressure Sensor.
- **LE-CL:** Light Energy Sensor.
- **RAIN-CL:** Rain Gauge.

- **Shield:** Solar Radiation shield.
- Mounting options: L-bar or T-bar.

- Fully mounted type is supplied with T-Bar equipment mounting arm, complete with attachment plate and two 50mm U bolts, ready for mounting to pipe or bolting to posts or buildings.
- Weather Sensor Transmitters are tools for the observation and recording of meteorological data.
- 4~20mA sensors for easy integration into a SCADA or PLC monitoring system.

HUMIDITY

AUTOMATION

Transmitters

Wet & Dry Tank

Counters/ Timers

Proximity Sensors

Rotating Connectors

LPN-H Series

With Indicator / Tx

And Totalisers

With LED indicator

Mercurtac Connectors



- The LPN-H is a complete relative humidity and temperature sensing module, with two loop powered 4~20mA output signals, representing 0~100%RH and 0~100°C.
- Two versions are available:
 - (i) Wall mount.
 - (ii) Duct mount.

- Humidity tank with Wet & Dry sensors.
- For the measurement of Relative Humidity, RH%.
- The WDT-DW Tank is wired to a Humidity & Temperature Indicator Transmitter IN-HWD, with two 4~20mA outputs representing 0~100%RH plus 0~100°C.

- Intech has a good variety of Counters, Timers, Hour Meters and Frequency & Rate Meters
- Popular models:
 - **R1-4DO:** Programmable indication and control meter.
 - **CT1-6D2:** Programmable Counter / Timer Indication / Control Meter.

- Temperature -20~70°C.
- Selectable output PNP or NPN.
- Inductive type.
- Capacitive type.
- Photo diffusion type.

- Mercurtac connectors produce near zero electrical noise due to their unique design.
- Resistance through the rotating contact is less than one milliohm, lower than the resistance of a slip ring.
- Does not degrade the signal over time.

Our Brands

Intech is proud to bring you the best of the world:



Industries we support:

- ✓ Concrete
- ✓ Food Processing
- ✓ Glass
- ✓ Heat Treatment
- ✓ Metals Manufacture & Processing
- ✓ Mining
- ✓ Petrochemical
- ✓ Pharmaceutical
- ✓ Plastics / Rubber
- ✓ Refrigeration
- ✓ Research
- ✓ Shipping
- ✓ Textile
- ✓ Timber/Forestry
- ✓ Water/Waste Water
- ✓ & Many others

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