



Textile Spinning & Process Industries



Temperature



Pressure



Level



Flow



Liquid & Gas Analysis



Humidity



Monitor



Control



Recording



Automation

Temperature



INFRARED TEMPERATURE SENSOR (PYROMETER)



Technical Features

- Temperature range: -20°C to 500°C
- Fixed emissivity setting: 0.95
- 4-20 ma, type K or J thermocouple, or 0-50 mv output options
- Fast response with high stability
- Stainless steel 316 housing
- Sealed to IP65
- Ideal for measuring non-reflective non-metals, or painted metal surfaces



Application

- Heat setting process
- Dying machine
- Hot air stenter machine heat setting
- Roller Temperature Measurement
- Boiler shell body temperature measurement
- Condition monitoring of rotating equipment

Technical Features

- Miniature sensing head withstands up to 120°C ambient temperature without cooling
- Measurement ranges from -20°C to 500°C
- Choice of outputs: 4-20 ma, 0-10 V DC, type J or K thermocouple
- Right-angled cable entry for low-profile installations
- Stainless steel sensing head, sealed to IP65
- Fixed emissivity 0.95 - suitable for measuring most non-reflective non-metals, and painted surfaces

Application

- Heated roller
- Ovens & dryers



6 CHANNEL HANDHELD TEMP DATA LOGGER WITH TOUCH SCREEN



Technical Features

- 4 x thermocouple inputs and 2 x RTD inputs
- Display and log all 6 channels simultaneously or individually
- Data logging to SD Card, or PC via USB interface
- Powered by built-in battery, USB or mains adapter (included)
- Touch screen with backlight
- Fully configurable; no additional hardware is required for configuration
- Free software available; Modbus protocol allows use with third-party software
- 2-channel scrolling temperature chart
- Alarm indication for each channel

Application

- Calibration
- Validation



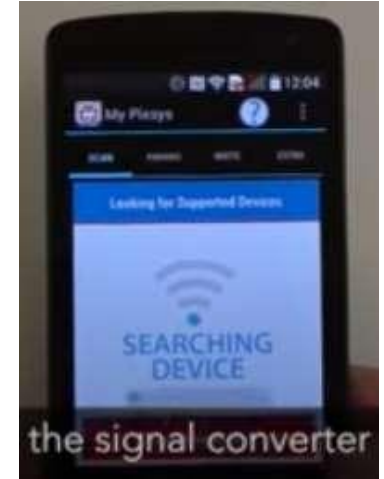
TEMPERATURE TRANSMITTER – HEAD MOUNTED

Technical Features

- Programmable by NFC/RFID technology (no wiring required)
- Galvanic isolated
- Universal input

Application

- Process
- Utility



ACTIVE AND PASSIVE TEMPERATURE SENSOR

ProSens Automation



HK INSTRUMENTS
USER-FRIENDLY MEASURING DEVICES

WIRELESS HIGH ACCURACY MEASUREMENT OF TEMPERATURE, HUMIDITY AND CO2



Technical Features

- No need for extra repeaters
- Energy efficient technology
- No need for external power supplies for routing nodes
- Ultra-low power consumption
- Battery lifetime up to 8 years
- Adjustable battery alarm set point
- Battery-operated transmitters with displays also available
- 2.4 GHz is wireless working Frequency
- Base unit is supporting up to 100 wireless transmitters for a wide range of measurements and options

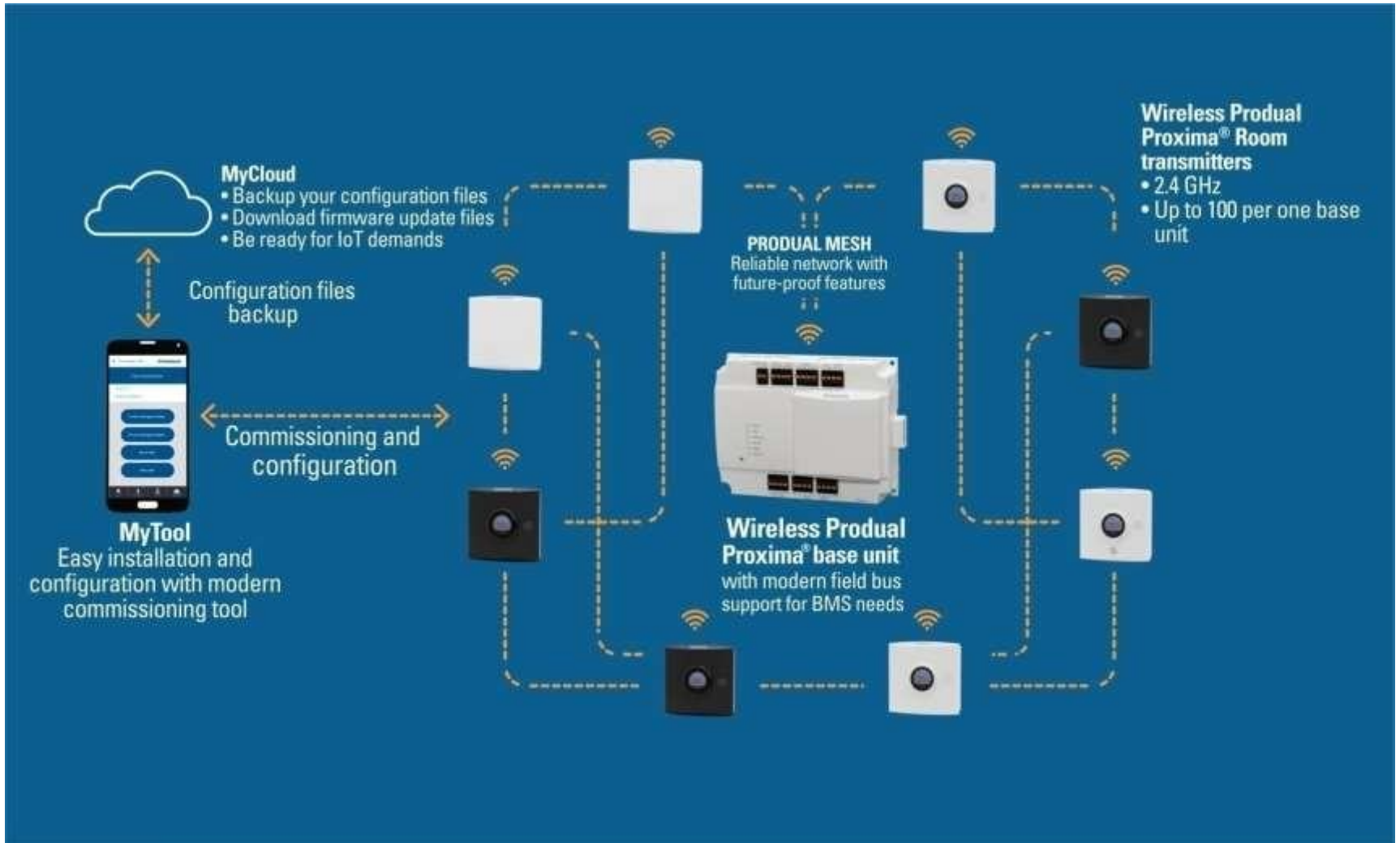


Application

- Warehouses
- BMS
- Commercial Building / IT Office



WIRELESS HIGH ACCURACY MEASUREMENT OF TEMPERATURE, HUMIDITY AND CO2



PRESSURE



ADJUSTABLE PRESSURE SWITCH 901P



Technical Features

- Adjustable pressure switch monitoring overpressure, vacuum or differential pressure of liquid and gaseous – also aggressive – media
- The pressure switch uses a scaled adjustment knob to enable the adjustment of trip and reset pressure without the use of a screwdriver
- Pressure range -700 mbar to 12 bar
- ATEX version also available for ex zones 1, 2 and 21, 22
- Life cycle mechanically more than 10^6 cycles

Application

- Utility
- Boiler
- Wastewater
- Liquid level measurement
- Pump control
- Hydraulic pressure measurement
- Gas pressure measurement



DIGITAL PRESSURE TRANSMITTER WITH DISPLAY (DST400)



Technical Features

- Programmable by NFC/RFID technology (no wiring required)
- Integrated data logger with programmable sampling time
- Independent rotation of display 335° and electrical connector 343° rotatable
- Selection of the analogue output by parameter as ma or volt
- Scalability of measuring range till 50% of the nominal scale
- Two PNP outputs
- Pressure switch-transmitter-display / all in one



Application

- Process
- Utility
- Hydraulic
- Power pack
- Pumps and compressors



Technical Features

- Analogue pressure transmitter monitoring overpressure, vacuum or differential pressure of liquid and gaseous media
- The pressure measurement is carried out in difference to the atmospheric pressure (relative pressure)
- Pressure range from -100 to 600 mbar
- Electrical connection with circular connector m12, 4 poles
- Protection class IP65



Application

- Continuous level monitoring
- Draft pressure measurement
- Blower suction pressure controlling
- Cooling tower gear box oil pressure monitoring



Technical Features

- Adjustable differential pressure switch for monitoring overpressure, vacuum and differential pressure of air or other non-combustible, non-aggressive gases
- The switching pressure can be adjusted via adjustment knob.
- As standard, the pressure switch is equipped with a transparent cover - protection class IP54 /IP65
- Pressure range from 20 to 5000 Pa
- ATEX version also available for ex zones 1, 2 and 21, 22

Application

- Carding Blowroom
- Draw frame & ring frame
- Comber & lap former
- Rotary bale pluckers
- Rotary air filter
- Waste collection system
- Humidification plant



DIFFERENTIAL PRESSURE TRANSMITTER 982R



Technical Features

- To measure differential pressure, overpressure and vacuum
- Provide one adjustable pressure range and one output signal
- Monitoring of gaseous, non-combustible and non-aggressive media
- The end of the pressure range can be reduced to 50% of its factory set full scale value simply by the use of a push-button.

Application

- Carding
- Bloowroom
- Draw frame & ring frame
- Comber
- Lapformer
- Rotary bale pluckers
- Rotary air filter
- Waste collection system
- Humidification plant



DIFFERENTIAL PRESSURE TRANSMITTER 984M



Technical Features

- To measure differential pressure, overpressure and vacuum
- Provide up to 8 pressure ranges and 2 output signals
- Easily selectable by jumper or rotary selector switch
- 0 ... 10 V or 4 ... 20 mA, 3-wire, with switching output (4 ... 20 mA, 2 wire output also available)

Application

- Carding
- Blowroom
- Draw frame & ring frame
- Comber
- Lapformer
- Rotary bale pluckers
- Rotary air filter
- Waste collection system
- Humidification plant



DIFFERENTIAL PRESSURE GAUGES

Technical Features

- The DPG series devices detect air and non-corrosive gas pressures(differential and positive)
- Provide a clear analog display of the measured values
- The DPG series devices include field adjustable zero point calibration and overpressure protection
- Accuracy (from FS) : $< \pm 2 \%$ (DPG60 $< \pm 4 \%$; DPG100 $< \pm 3 \%$)
- Measuring units : Pa
- Burst pressure: 20 kPa
- Membrane : Silicone

Application

- Fan, blower and filter monitoring
- Pressure and flow monitoring
- Pressure monitoring in cleanrooms



Technical Features

- The differential pressure gauges 990 display are for air and non-aggressive gases and will be used to measure differential pressure, overpressure and vacuum
- Adjustable pressure range from 0 to 2.5 bar
- Switchable pressure units (Pa (kPa), mbar, inWC)
- Switchable output signal 0 ... 10V or 4 ... 20 mA, 3-wire
- 2 potential-free switching outputs with a maximum switching capability of 50VAC/5A (S1) and 250VAC/5A (S2)
- Adjustable response time, easy offset calibration

Application

- Bag filter pressure monitoring
- Rotary Air Filter system



Technical Features

- High level of accuracy and long-term stability
- Little zero point drift or hysteresis; largely independent of temperature
- Measurement of positive and negative differential pressures
- Supply voltage: 230 VAC
- Output signal 0 .. 10 V
- Measurement range: e.g. 0 ... 10 mbar, 0 ... 25 mbar



Application

- Carding machine

DIFFERENTIAL PRESSURE TRANSMITTER PS27



Technical Features

- Suitable for top-hat rail mounting and wall surface installation
- Selectable output signal 0/2 .. 10 V, 0/4 .. 20 mA or 0 .. 5 V
- Selectable attenuation of the output signal of up to 4 s (optional)
- Display (optional)
- Zero-point calibration via an external signal reduces maintenance costs



Application

- Bag filter pressure monitoring
- Draft pressure monitoring
- Fan/blower flow monitoring

DIFFERENTIAL PRESSURE SWITCH FOR LIQUID WITH ADJUSTABLE SETTING



Technical Features

- Temperature of media from -10 to +80°C
- Pressure ranges 0.04 ... 1bar
- Maximum operating pressure 10 bar
- Diaphragm Material : EPDM / NBR / Viton / Silicone
- Electrical rating Standard version max. 6 (1.5) A / 250 VAC
max. 10 (2.0) A / 250 VAC

Application

- HVAC plant room pumps
- filter condition
- flow monitoring
- Chiller
- heat pump or AC unit
- Air compressor



Technical Features

- The DPTL is made for differential pressure detection in liquids for air-conditioning, heating and water systems. The equipment can withstand mildly corrosive substances and liquids
- Pressure connectors: inside thread g ¼"
- Range 0 to 10 bar
- Output signal 0...10 v or 4...20 mA
- Protection class: IP65
- Temperature of medium:-20...80 °c

Application

- Water and oil filter monitoring
- Differential pressure monitoring in various liquid media



DIFFERENTIAL PRESSURE TRANSMITTER DPT-R8



Technical Features

- Multiple measurement units, field selectable via jumper, including: inWC, mmWC, Pa, mbar
- 8 field selectable measurement ranges, unidirectional or bi-directional, selectable via jumper e.g. 1000, 1500, 2000, 2500, 3000, 4000, 5000, 7000 Pa
- Proportional output options including: voltage (0–10 V / 2–10 V) and current (4–20 mA)



Application

- Carding & Bloowroom
- Draw frame & ring frame
- Comber & Lapformer
- Rotary bale plucker & rotary air filter
- Waste collection system & humidification plant

Technical Features

- High level of accuracy and long-term stability ($\pm 0.5\%$ of max. value)
- Available for 4 measuring ranges (± 200 Pa, ± 2 kPa, ± 20 kPa, ± 200 kPa)
- Velocity range: 1.5 .. 180 m/s depend on model
- Scalable analog output 0..2 V ($RL \geq 2$ k Ω) - 0..1..2 V ($RL \geq 2$ k Ω) for negative and positive measurement ranges
- Zero-point calibration at the touch of a button eliminates the dependence of the display on its location
- Stores min. And max. values
- Power supply 9 V battery

Application

- Pressure measurement in air duct line
- Differential pressure measurement across the filter
- Draft pressure measurement



Technical Features

- Crest value / bearing condition parameter
- Two freely configurable outputs
- Output 1 : IO-Link or digital switching output
- Output 2 : Analog current output (4... 20 mA) or digital switching output. Many setting options are available
- Configurable frequency range, e.g. 1... 1000 Hz or 1 Hz... 500 Hz or 10... 1000 Hz or 10 Hz... 500 Hz
- Optional functional safety SIL 1

Application

- Turbines
- Mills
- Vibrating Feeders
- Fans
- Centrifuges
- Pumps Cooling Towers



LEVEL



LIQUID LEVEL SWITCH 901.6X



Technical Features

- Adjustable pressure switch monitoring overpressure, vacuum or differential pressure of liquid and gaseous media
- 5 to 3000 mbar adjustment ranges
- Over-pressures up to 4 bar
- Changeover SPDT contacts
- 1/4" BSP thread (others available)
- With graduated adjustment dial

Application

- Water level monitoring



Technical Features

- Analogue pressure transmitter monitoring overpressure, vacuum or differential pressure of liquid and gaseous – also aggressive – media
- The pressure measurement is carried out in difference to the atmospheric pressure (relative pressure)
- Electrical connection with circular connector m12, 4 poles
- Protection class IP65

Application

- Water level monitoring up to 6 meter



FLOW



Technical Features

- The transmitters of the 985V series are used to measure volume flow or flow velocity and pressure. A jumper enables switching between volume flow or flow velocity and pressure measurement
- Measurement range up to 60 m/s.
- Output signal: 0-10 V or 4 to 20 mA, 3-wire
- Protection class: IP65
- Units selectable :
volume flow : m³/h; m³/s; cfm; l/s
flow velocity : m/s; ft./min
- Configuration of volume flow or flow velocity measurement

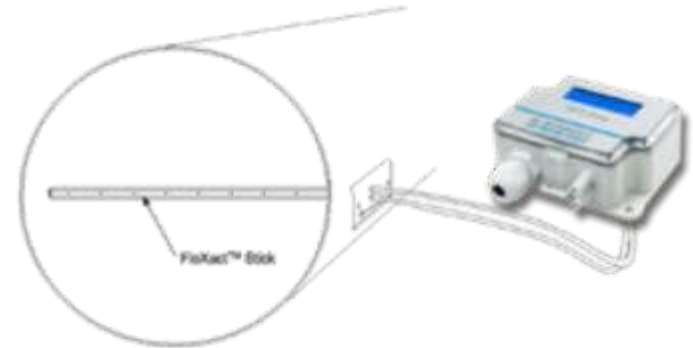
Application

- Air flow measurement via averaging flow sensor
- ID/FD fan velocity measurement via s-type pitot tube



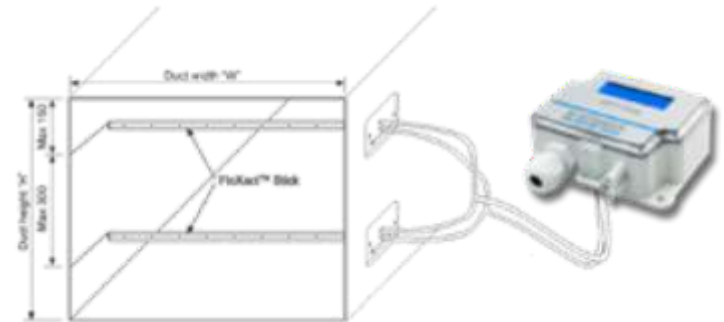
Technical Features

- Flow units (select via menu): volume: m³/s, m³/hr, cfm, l/s, velocity : m/s, ft/min
- Display
2-line display (12 characters/line)
 - line 1: volume or velocity measurement
 - line 2: pressure measurement
- Protection class IP54



Application

- Air flow monitoring across centrifugal fans and blowers
- In-duct air flow monitoring



PORTABLE DIGITAL VELOCITY METER (EMA 200)



Technical Features

- High level of accuracy and long-term stability ($\pm 0.5\%$ of max. value)
- Available for 4 measuring ranges (± 200 Pa, ± 2 kPa, ± 20 kPa, ± 200 kPa)
- Velocity range: 1.5 .. 180 m/s depend on model
- Scalable analog output 0..2 V ($RL \geq 2$ k Ω) - 0..1..2 V ($RL \geq 2$ k Ω) for negative and positive measurement ranges
- Zero-point calibration at the touch of a button eliminates the dependence of the display on its location
- Stores min. And max. values
- Power supply 9 V battery



Application

- Pressure measurement in air duct line
- Draft pressure measurement
- Air velocity measurement in HVAC & process

Liquid & Gas Analysis



NON POROUS pH / ORP ELECTRODES



Technical Features

- Protected Ag/AgCl reference half cell - REFEX barrier/interface prevents all liquid contact/exchange
- Resistance to fouling and poisoning
- Suitable for temperatures between 0 100C
- Instantaneous response to pH change
- Constant Eo zero - almost maintenance free
- Long electrode life - many times longer than all others
- Compatible with all modern pH instruments with dual high impedance inputs for pH and reference electrodes
- Operates in pressures between full vacuum and 20 bar / 290 psi
- No diffusion potential errors in low ionic waters

Application

- You can replace another brand Electrode like Yokogawa/ Jumo / E+H / Emerson pH Electrode with REFEX pH Electrode Easily



Humidity



DUCT HUMIDITY AND TEMPERATURE TRANSMITTER



Technical Features:

- Supply: 24V AC/DC (*21...28 V), 2 VA
- Humidity measurement Range: 0...100 % rH
- Temperature measurement Range : -50...+50 °C
- Outputs: 0...10/2...10/0...5 Vdc, < 2 mA / 4...20 mA, < 500 Ω
- Display (N models): backlit dot matrix display
- Communication (M models): Modbus RTU
- Protection Class- Transmitter: IP54 (probe or cable gland downwards)
- Sensor: IP20
- Mounting: with a flange, adjustable probe depth
- Dimensions (w x h x d):70 x 98 x 220 mm
- Materials: PBT, PC, PA and stainless steel



Application:

- Humidity and temperature transmitters are designed to detect duct air humidity and temperature.

Technical Features

- The transmitter is available with several optional air quality sensors including temperature, relative humidity, CO2 concentration, VOC (Volatile Organic Compounds) and PM (Particle Matter)
- Wall mounted
- Calibration (CO2) : Automatic self-calibration, ABC Logic™
- Supply voltage : 24 VDC/VAC ±10 %
Output signal 1–4 : 0...10 V / 2...10 V / 0...5 V optional 4...40 mA
- Linear to selected measurement (CO2, VOC, PM, rH or Temp)
- Protection standard : IP20

Application

- Indoor air quality measurement



Control



DIGITAL INDICATING CONTROLLERS

Technical Features

- Drip-proof/dust-proof IP 66
- Compact, 60 mm-deep control panel interior
- Large, easy-to-view, 5-digit PV, SV displays
- Simplified program control
- Simplified converter function
- A variety of event input / output functions
- Simple settings from a PC
- Enhanced serial communication function (RS-485)

Application

- Utility
- Process



Monitor



INDICATOR WITH STRAIN-GAUGE INPUT (LOAD CELL INDICATOR)

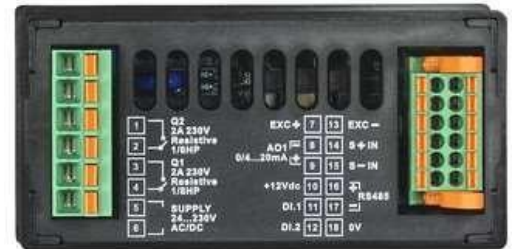


Technical Features

- Auto-configuration mode
- Isolated power supply for the strain-gauge
- Communication RS485 with Modbus RTU/Slave protocol
- Power supply : 24...230V AC/DC $\pm 10\%$ 50/60 Hz (galvanically isolated) 2500V
- Power Consumption : 6 VA
- Display : OLED (monochromatic yellow)
- Operating conditions : Temperature 0-45 °C, humidity 35..95 RH% (non condensing)
- Sealing : Front panel: IP54(IP65 with gasket) - Box and Terminal blocks: IP20
- Quick set-up options : Memory Card microUSB, APP. MyPixsys
- Integrated datalogger with programmable sampling time

Application

- Load Cell Indicator
- Various calibration modes can be selected for the analog input (sample weight, percentage value on scale base, mV/V value).



Technical Features

- JIR-301-M (W96 x H48 x D100 mm)
- Multi input (total 18 types of input)
- High sampling speed 125ms
- Serial communication (RS-485)
- 3-point alarm output function as a standard
- Power for 2-wire transmitter
- Retransmission output
- IP66 structure (for the front panel)



Application

- Monitor the process parameter



Automation



TEMPERATURE TRANSMITTER - HEAD MOUNTED

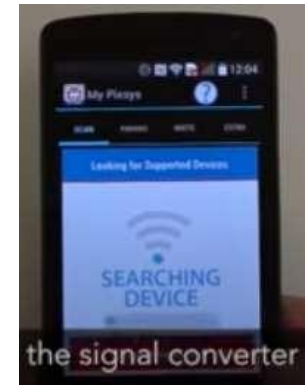


Technical Features

- Programmable by NFC/RFID technology (no wiring required)
- Galvanic isolated
- Universal input - RTD (PT100/NI100) + TC (K-S-R-J-T-N-B-E)
- Output signal: 4 ... 20mA Loop Powered - isolated version


Application


- Process
- Utility



For More Information - Get in Touch With Us :

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