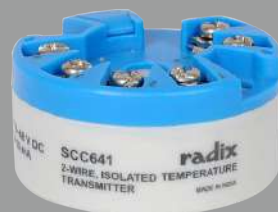


radix®

SHORTFORM CATALOG



BUILDING AUTOMATION



BMS Products

P6

Transmitters and indicators optimised for BMS and cleanroom applications



Door Interlock Controllers

P11

Access control and door interlock systems for the healthcare industry



GPS Network Clocks

P12

Wired and wireless network clocks for maintaining uniform and accurate time keeping across a facility



TEMPERATURE

P13

Wide range of products for temperature indication, measurement and control



LEVEL

P19

Level gauges, switches, transmitters and controllers including for boiler applications



FLOW

P21

Range of flow products including Electromagnetic flow meters, indicators, strainers, etc



PRESSURE

P23

Gauges in bourdon tube, diaphragm and capsule elements along with accessories



COMMUNICATION PRODUCTS

P24

Products for automation applications from signal conditioning to signal indication (Isolators, Analog I/O Modules, Converters, Scanners, Indicators)



AUTOMATION

P27

All types of control panels and automation services involving PLC, HMI, SCADA etc



PROCESS CONTROL

P29

Miscellaneous instruments used in process applications and thyristors



FLAMEPROOF INSTRUMENTS & SENSORS

P30

Instruments & sensors housed in special flameproof enclosures with various degrees of ingress, fire and explosion protection

ABOUT RADIX

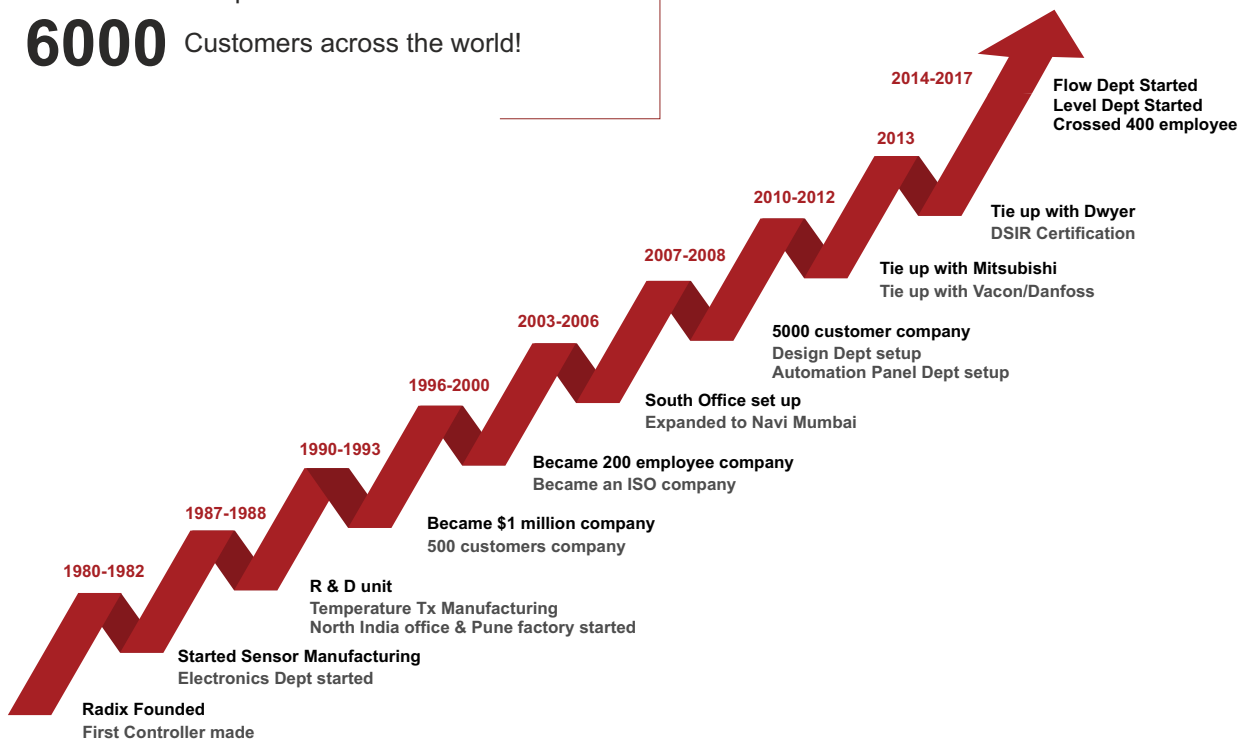
SERVING PROCESS INSTRUMENTATION INDUSTRY SINCE 4 DECADES

Radix is dedicated to providing accurate, reliable and customised instruments for measuring Temperature, Pressure, Level, Flow, Relative Humidity and end-to-end solutions for Building Automation projects.



1980 One of India's leading instrumentation companies since 1980

6000 Customers across the world!



ABOUT RADIX

IN-HOUSE DESIGN AND DEVELOPMENT

Radix is a pioneer in maintaining the finest design competency, a meticulous control over quality and a customer-centric business model.

Our two R&D centres are working round the clock to develop products with best technology and features suitable for your applications



CUSTOMISED, RELIABLE, ACCURATE



- Large Development Team
- Deep Domain Expertise
- Simplified Sourcing & Execution
- Time & Cost Advantage

CLEAN ROOM INDICATORS



HAWKEYE



HAWKEYE RTC



HAWKEYE PRO



HAWKEYE FLP



HAWKEYE RXF



HAWKEYE RTC
WITH ANALOG OUTPUT



HAWKEYE ETH



HAWKEYE PRO ETH



T-SYNC



HAWKEYE MINI RTC



HAWKEYE MINI



HAWKEYE MINI DP

Model	Input	Digital Input	Buzzer Output	Analog Output	Supply	Display Digits	Communication
HAWKEYE	3 x Integral, Remote	No	Yes	0	85~265 V AC, 50/60 Hz / 20~35 V DC	3+3+3 (0.8")	RS485 / MODBUS RTU
HAWKEYE	2 x Integral, Remote	No	Yes	0	85~265 V AC, 50/60 Hz / 20~35 V DC	3+3 (0.8")	RS485 / MODBUS RTU
HAWKEYE RTC	3 x Integral, Remote	No	Yes	0	85~265 V AC, 50/60 Hz / 20~35 V DC	3+3+3+4 (0.56")	RS485 / MODBUS RTU
HAWKEYE PRO	3 x Integral, Remote	Potential free AHU Input	Yes	0	85~265 V AC, 50/60 Hz / 20~35 V DC	LCD with backlight	RS485 / MODBUS RTU
HAWKEYE RXF	3 x Remote, Integral RH+T	No	No	0	85~265 V AC, 50/60 Hz	3+3+3+4 (0.56")	RS485 / MODBUS RTU
HAWKEYE RTC	3 x Integral, Remote	No	Yes	3	85~265 V AC, 50/60 Hz / 20~35 V DC	3+3+3+4 (0.56")	RS485 / MODBUS RTU
HAWKEYE ETH	3 x Remote, Integral RH+T	No	Yes	0	85~265 V AC, 50/60 Hz / 20~35 V DC	3+3+3 (0.8")	MODBUS / TCP & Telnet
HAWKEYE PRO ETH	3 x Integral, Remote	Potential free AHU Input	Yes	0	85~265 V AC, 50/60 Hz / 20~35 V DC	LCD with backlight	MODBUS / TCP & Telnet
HAWKEYE RTC	3 x slave	No	Yes	0	85~265 V AC, 50/60 Hz / 20~35 V DC	3+3+3+4 (0.56")	RS485 / MODBUS RTU
T-SYNC	-	No	No	0	85~265 V AC, 50/60 Hz / 20~35 V DC	4+2+6 (0.8"+0.56"+0.39")	RS485 / MODBUS RTU
HAWKEYE MINI RTC	3 x Integral	No	Yes	0	24 V DC	4+4+4+4 (0.45")	RS485 / MODBUS RTU
HAWKEYE MINI	3 x Remote	No	Yes	0	24 V DC	4+4+4+4 (0.45")	RS485 / MODBUS RTU
HAWKEYE MINI DP	3 x Integral	No	Yes	0	24 V DC	4+4+4+4 (0.45")	RS485 / MODBUS RTU

RH+T 2-WIRE TRANSMITTERS



Model	Size h x w x d mm	RH+T Sensor	Display Digits	Output	Supply	Mounting
SC804	149x140	Integral	4+4, LED	2 x 4~20 mA	11.5~32 V DC loop supply	Surface
SC805	See catalog	Integral/remote	4+4, LCD	2 x 4~20 mA	4.5~32 V DC loop supply	Surface / Duct mount
SC806	See catalog	Integral	-	2 x 4~20 mA	4.5~32 V DC loop supply	Surface / Duct mount
SC807	See catalog	Integral/remote	-	2 x 4~20 mA	4.5~32 V DC loop supply	Surface / Duct mount
SC808	See catalog	Integral/remote	4+4, LCD	MODBUS RS485 RTU	20~32 V DC supply	Surface / Duct mount
RHT811	See catalog	Integral/remote	4+4, LCD	2 x 4~20 mA / 0~10 V	18~36 V DC OR 20~32 V AC	Surface / Duct mount
RHT831	See catalog	Integral/remote	4+4, LCD	2 x 4~20 mA / 0~10 V	18~36 V DC OR 20~32 V AC	Surface / Duct mount
RHT861	See catalog	Integral/remote	4+4, LCD	4 x 4~20 mA	13.5~32 V DC loop supply	Surface / Duct mount

RH+T & DP INDICATORS - BATTERY OPERATED

DPG201

DPG202

RHT802

RHT803

- 1 year+ battery life
- High accuracy
- Software calibration - no trim pots
- Dual 7-segment LCD display for RH & T
- Programmable sampling interval, unit, bias, etc
- RTC display
- For modular panel (DPG201, DPG202)
FLP (RHT802), Standard (RHT803)

DP 2-WIRE TRANSMITTERS

DPT502

SCC503

SC504

- 2-wire, 4~20 mA output
- Units : Pa, mmWC, mbar, inWG, inHg, PSI, mmHg
- High accuracy
- Software calibration - no trim pots
- 24 V DC Loop supply
- PC programmable
- Zero adjustment with pushbutton switch
- Surface / Duct mount

DP TRANSDUCERS

Flameproof

DPT511

Duct mount

Surface mount

- 2 x 4~20 mA / 0~10 V outputs
- Unit : Pa, mmWC, mbar, inWG, inHg, PSI, mmHg
- Software calibration - no trim pots
- Dual 7-segment LCD display (DPT511)
- Zero adjustment with pushbutton switch
- RS485 / MODBUS RTU
- 24 V DC Loop supply
- PC programmable
- Flameproof, IP66
- Surface mount

RH+T INDICATORS / CONTROLLERS

RHC301



HTC96



HX96A



- 2-wire, 4-20 mA / 0-10 V output
- Dual 7-segment LED display to show RH & T
- 24 V DC transmitter supply
- PC programmable
- Surface / Panel mount
- MODBUS

WIRELESS TRANSMITTER-RECEIVER SYSTEMS

%RH, RTD, THERMOCOUPLE, LEVEL



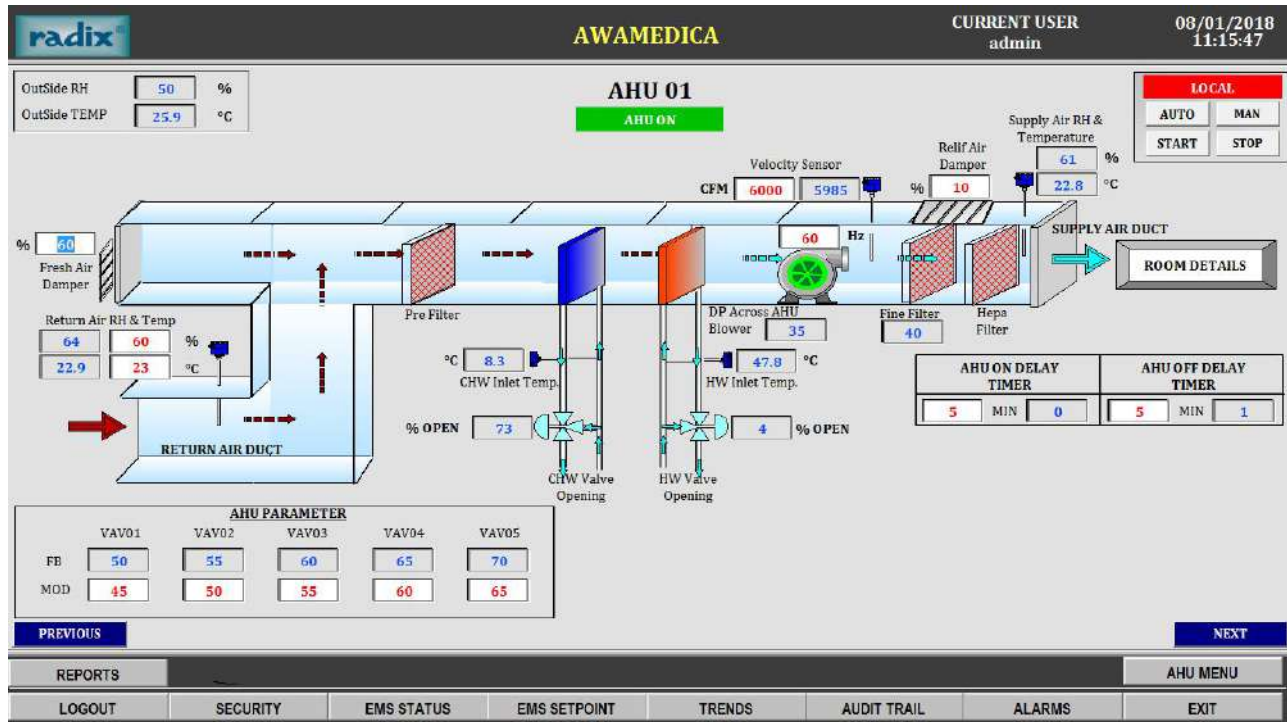
- Transmitter (Surface and Head Designs)
 - RTD : Pt100
 - Thermocouple : J, K, T, E, R, S, B, N
 - Level : % RH
- Range : Up to 120 m outdoor line of sight
Up to 40 m indoor / urban

- Repeater to extend range
- Receiver with USB port
- Receiver with RS485 converter
- Free utility software ZGU201

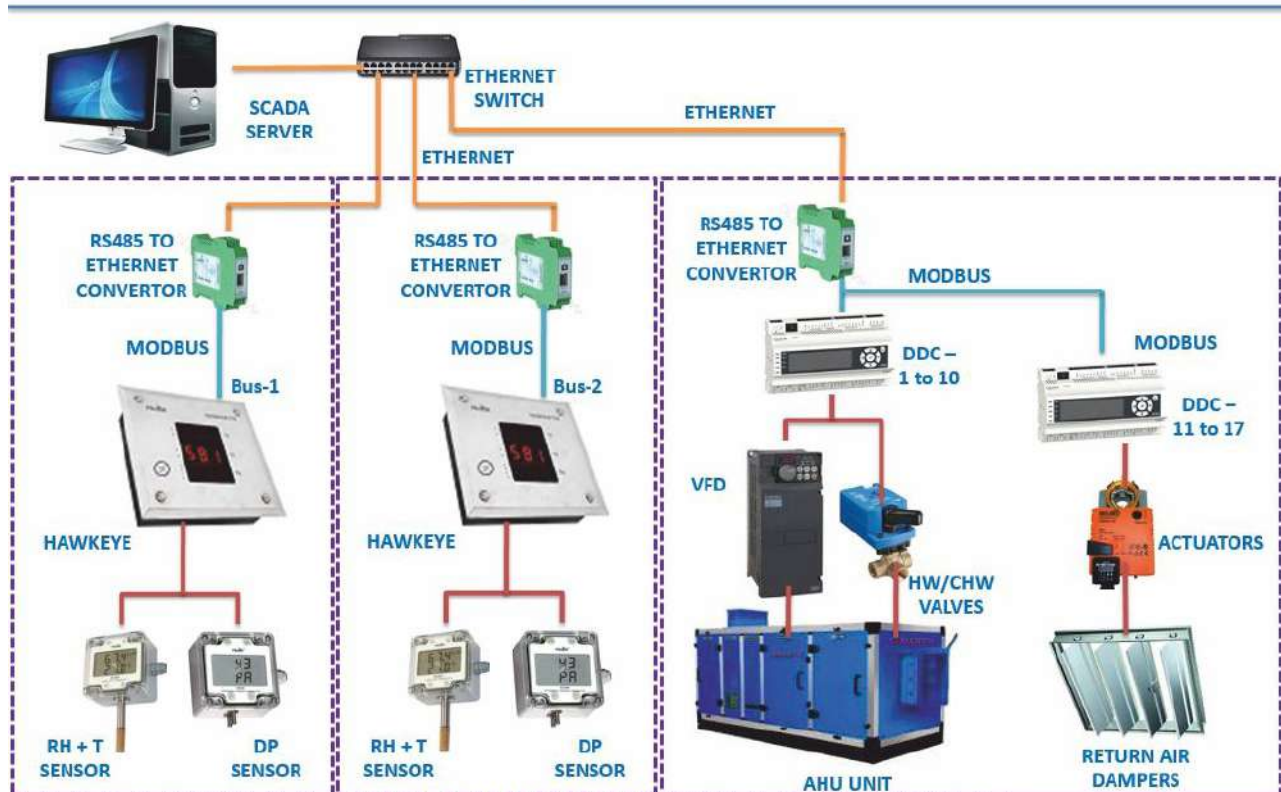
- Full-featured SCADA option
- Battery life : Minimum 1 year
- Transmit interval : 2 to 3600 seconds
- RF strength mapping services optional

BMS, HVAC AUTOMATION

- Integrated BMS/EMS end-to-end solutions for Pharma, Commercial BMS, HVAC systems
- In-house team of Automation and Instrumentation specialists



BMS System Architecture



DWYER PRODUCTS



Radix - International Distributor of Dwyer Products

BUILDING
AUTOMATION



Pressure



Air Velocity



Flow



Level



CO/CO₂



Humidity



Dataloggers & Recorders



Process Control



Test Equipment



Averaging Temperature Sensors



Weather Resistant Surface Temperature Sensors



Duct & Immersion Building Automation Temperature Sensors



Immersion Temperature Probes



Outdoor Temperature Sensors



Outside Air Temperature Sensors

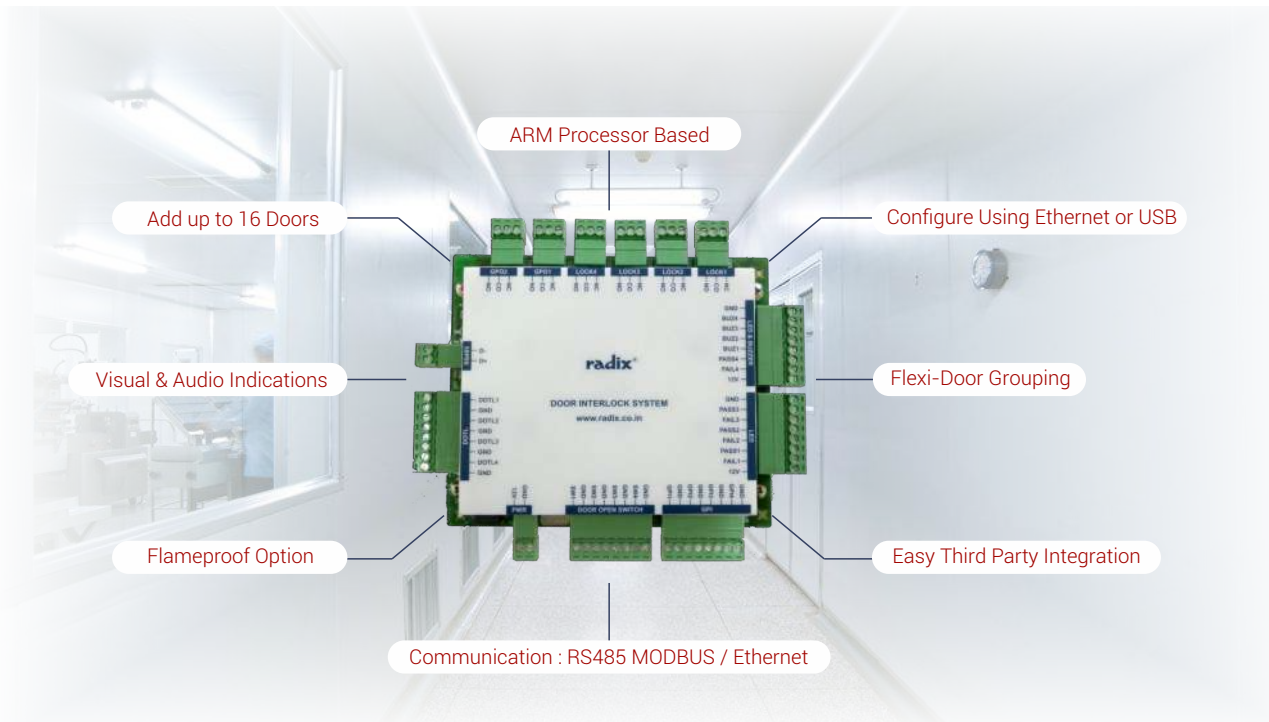


Stainless Steel Wall Plate Temperature Sensor



Resistance Temperature Detector

DOOR INTERLOCK CONTROLLERS



DXC241
2~4 DOOR
WITH RS485

DXC281
2~8 DOOR
WITH ETHERNET

DXC341
2~4 DOOR
FOR OEMs

DXC421
PASS BOX CONTROLLER
WITH RS485

ELECTROMAGNETIC DOOR LOCKS

- Type : Electromagnet / Drop bolt
- Holding force : Holding force 600lb/280Kg (99.99% pure copper coil used)
- Rust protection : Blue zinc-plating
- Voltage : 12VDC
- Current : 0.48A
- Operating temperature : -20 ~ 60 °C
- Options : Regular, IP67, FLP



EMERGENCY SWITCHES

- Contact type : Normally open
- Standard structure : Stainless steel panel, steel button
- Panel material : Stainless steel, brush finish



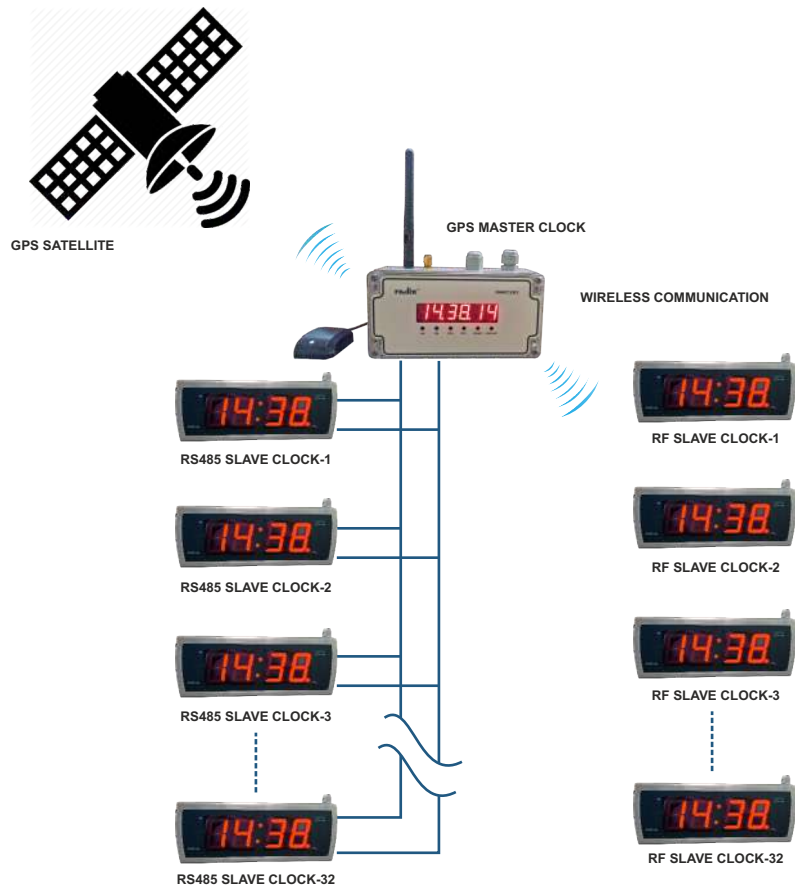
NO-TOUCH SWITCHES

- Input voltage : 12VDC
- Contact rating : 3A/120VAC 30VDC
- Operating temperature : -20 °C ~ 50 °C
- Life : 500000 operations
- IP : IP65 optional



GPS WIRELESS & NETWORK CLOCKS

BUILDING
AUTOMATION



HH:MM:SS



HH:MM



MASTER CLOCK



WITH ETHERNET



WIRED CLOCK

- Power : 85~265 V AC / 50 Hz
- Master to slave clocks link : RF wireless (867MHz), RS485 (Modbus RTU)
- Time format : 6 digit (HH:MM:SS) / 4 digit (HH:MM)
- LED indications : PM, AM, PPS, RTC, TX, Low Battery
- Material : ABS with polycarbonate /SS304
- Protection : IP65
- Mounting : Wall mount
- Operating temperature : 0~50 °C

TEMPERATURE GAUGES

DIAL THERMOMETERS



- Bi-metallic sensing element
- -50 to 400 °C
- Weatherproof to IP68 per IS/IEC 60529:2001

TEMPERATURE

TEMPERATURE SENSORS

MINIATURE PIPELINE RTDs



- Pt100, 3-wire, others on request
- -50 to 250°C measuring range
- Class A / higher accuracy
- 4-20 mA on request

SANITARY RTDs & THERMOCOUPLES

<p>Polypropylene head</p> 	<p>Aluminium head</p> 	<p>ATEX head</p> 	<p>SS mini head</p> 
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- Pt100, 3-wire, other calibrations available
- -50 to 250°C, other ranges available
- Class A / higher, accuracy
- 4-20 mA on request

RHS SERIES
TRI-CLOVER CONNECTION

TEMPERATURE SENSORS

AUTOCLAVE / STEAM STERILIZERS



MODEL **RAC244**
Silicone rubber jacketed cable

- Pt100, 3/4-wire
- Class A / higher accuracy
- 0 to 150°C measuring range



- Pt100, 3/4-wire
- Class A / higher accuracy
- 0 to 150°C

MODEL **RAC243**
Teflon insulated cable



- Special limits of error (Class 1)
- Stranded wires for flexibility
- 0 to 150°C measuring range

MODEL **TAC243**
Teflon insulated tip

DRY HEAT STERILIZER (DHS)



MODEL **RDH245**

- Pt100, 3-wire
- Class A accuracy
- 0 to 265 °C

TUNNEL VALIDATION



MODEL **TTV246**

- T- type or K-type calibrations
- Special limits of error (Class 1)
- Upto 360 °C measuring range

LYOPHILIZER & DEEP FREEZER



- Pt100, 3-wire
- Class A / higher accuracy
- -100 to 200 °C measuring range

MODEL **RFL248**



- Copper / constantan (T type) thermocouple
- Stranded wires for flexibility
- -100 to 200 °C measuring range

MODEL **TFL248**
Teflon insulated tip

RTD WITH M12 CONNECTOR



MODEL **RCM202**

- Pt100, 3-wire, others on request
- Class A / higher accuracy
- -50 to 200°C measuring range

RTDs FOR VESSELS & PIPES



MODEL **RHP502**
FOR TEMPERATURE MEASUREMENT IN TUBES



MODEL **RTP503**

- Copper / constantan (T type) thermocouple
- Stranded wires for flexibility
- -100 to 200 °C measuring range



MODEL **RHV200**
WITH G1/2 HYGIENIC



MODEL **RHV300**
WITH INGOLD PORT

- Pt100, 3-wire
- Class A / higher accuracy

TEMPERATURE SENSORS

SURFACE TEMPERATURE



- SS mounting clamp
- SS pods
- Class A accuracy
- Detachable sensor
- -20 to 200 °C measuring range

MODEL **RCE202** MODEL **RCS202**
CLAMP-ON RTD


PIPE LINE RTDs



MODEL **RHP602** MODEL **RHP612** MODEL **RTS602**

- Offered with Weld in connection, clamp in, sanitary Tri-clover RTD

HVAC AND GAS TEMPERATURE MEASUREMENT




MODEL **RAV210** MODEL **RAV212** MODEL **RAV220** MODEL **RAV310** MODEL **RAV301**

IN-DOOR OUT-DOOR RTD FOR AIR AND GAS AIR / GAS / DUCT TEMPERATURE MEASUREMENT

Perforated Tip
Closed Tip

THERMOWELL ASSEMBLIES



- Tubular fittings used to protect temperature sensors

VALIDATION PORT



MODEL **VPA241**

- Slots for 18 RTDs / TC
- 1.5" Tri-clover mounting
- Upto 150 °C and 3 bar pressure

GENERAL PURPOSE ASSEMBLIES



- Pt100, 3/4-wire, others on request
- Class A / higher accuracy
- -50 to 400°C measuring range

RHG SERIES FOR WP & RFG SERIES FOR FLP MODELS
WEATHERPROOF & FLAMEPROOF TERMINATIONS

PID CONTROLLERS



X96P



X72



X48



X49



NEX401

Model	Size hwxwd mm	Input	Setpoints	Analog Output	Supply	Display Digits	RS485 / MODBUS RTU	Remarks
X96P	96x96x100	2 x Universal	5	2	85~265 V AC, 50/60 Hz / 20~35 V DC	4+4+3	Yes	Full-featured
X96	96x96x100	Universal	5	1	85~265 V AC, 50/60 Hz / 20~35 V DC	4+4	Yes	Full-featured
X72	72x72x100	Universal	5	1	85~265 V AC, 50/60 Hz / 20~35 V DC	4+4	Yes	Full-featured
X48	48x48x100	Universal	3	1	85~265 V AC, 50/60 Hz / 20~35 V DC	4+4	Yes	Full-featured
X49	48x96x100	Universal	4	1	85~265 V AC, 50/60 Hz / 20~35 V DC	4+4	Yes	Full-featured
X94	96x48x100	Universal	4	1	85~265 V AC, 50/60 Hz / 20~35 V DC	4+4	Yes	Full-featured
P96	96x96x100	Universal	2	1	85~265 V AC, 50/60 Hz / 20~35 V DC	4+4	No	Midrange
P48	48x48x100	Universal	2	1	85~265 V AC, 50/60 Hz / 20~35 V DC	4+4	No	Midrange
NEX401	100x23x114	Universal	2	1	85~265 V AC, 50/60 Hz / 20~30 V DC	-	Yes	Din-rail mount

PROGRAMMABLE TEMPERATURE / PROCESS CONTROLLERS, INDICATORS



X48A



X96D



TEC401



TEC201



X94A

Model	Size hwxwd mm	Input	Setpoints	Analog Output	Supply	Display Digits	RS485 / MODBUS RTU	Remarks
X96Δ	96x96x100	2 x Universal	4	2	85~265 V AC, 50/60 Hz / 20~35 V DC	4+4+4	Yes	Difference, Average, etc
X96A	96x96x100	2 x Universal	4	2	85~265 V AC, 50/60 Hz / 20~35 V DC	4+4	Yes	Single/Dual Channel
X72A	72x72x100	Universal	4	1	85~265 V AC, 50/60 Hz / 20~35 V DC	4+4	Yes	Full-featured
X48A	48x48x100	Universal	3	1	85~265 V AC, 50/60 Hz / 20~35 V DC	4+4	Yes	Full-featured
X49A	48x96x100	Universal	3	1	85~265 V AC, 50/60 Hz / 20~35 V DC	4+4	Yes	Full-featured
X94A	96x48x100	Universal	3	1	85~265 V AC, 50/60 Hz / 20~35 V DC	4+4	Yes	Full-featured
TC96	96x96x100	Universal	2	1	85~265 V AC, 50/60 Hz / 20~35 V DC	4+4	No	Midrange
TC72	72x72x100	Universal	2	1	85~265 V AC, 50/60 Hz	4+4	No	Midrange
TC48	48x48x100	Universal	2	1	85~265 V AC, 50/60 Hz / 20~35 V DC	4+4	No	Midrange
TC49	48x96x100	Universal	2	1	85~265 V AC, 50/60 Hz / 20~35 V DC	4+4	No	Midrange
TC49SU	48x96x100	Universal	2	1	85~265 V AC, 50/60 Hz / 20~35 V DC	4	No	Midrange
TEC401	48x96x112	Universal	4	1	85~265 V AC, 50/60 Hz / 18~35 V DC / 12~55 V DC	4 ½	No	Process Indicator with alarms
TEC201	48x96x100	Universal	2	1	85~265 V AC, 50/60 Hz / 20~35 V DC	4	No	4 x 0.8" display
EC96	96x96x100	J, K, Pt100	2	0	85~265 V AC, 50/60 Hz	4+4	No	Low-cost
EC72	72x72x100	J, K, Pt100	2	0	85~265 V AC, 50/60 Hz	4+4	No	Low-cost
EC48	48x48x100	J, K, Pt100	2	0	85~265 V AC, 50/60 Hz	4+4	No	Low-cost
EC96S	96x96x100	J, K, Pt100	1	0	85~265 V AC, 50/60 Hz	4	No	Low-cost
EC48S	48x48x100	J, K, Pt100	1	0	85~265 V AC, 50/60 Hz	4	No	Low-cost
EC396	96x96x100	J, K, Pt100	1	0	85~265 V AC, 50/60 Hz	3	No	Low-cost
EC348	48x48x100	J, K, Pt100	1	0	85~265 V AC, 50/60 Hz	3	No	Low-cost
FLT601	96x96x100	0/4~20mA, 0~10V DC	4	1	85~265 V AC, 50/60 Hz	6+8	Yes	-19999 to 99999, 4 setpoints, relay modes, linear or square root input

2-WIRE TRANSMITTERS



Model	Input Type	Input User Programmable	Output Type	Accuracy	Isolation	Loop Supply (V DC)	Technology	Size HxWxD mm	Mounting
SCC631	Universal	Yes, using DCC503 or DCC501	2-wire, 4~20 mA, HART	0.1%	2000 V AC	7.5 ~ 48	Microprocessor	44x22.5	for DIN form B sensor head
SCC641	Universal	Yes, using DCC501	2-wire, 4~20 mA	0.1%	2000 V AC	7.5 ~ 48	Microprocessor	44x22.5	for DIN form B sensor head
SCC642	RTD	Yes, using DCC502	2-wire, 4~20 mA	0.1%	NA	7.5 ~ 48	Microprocessor	44x22.5	for DIN form B sensor head
TX1HM	RTD	No	2-wire, 4~20 mA	0.1%	NA	6.5 ~ 32	Analog	47x17	for DIN form B sensor head
SCC632	Universal	Yes, using DCC503 or DCC501	2-wire, 4~20 mA, HART	0.1%	2000 V AC	7.5 ~ 48	Microprocessor	100x12.5x114	DIN rail
SCC602	Universal	Yes, using DCC501	2-wire, 4~20 mA	0.1%	2000 V AC	7.5 ~ 48	Microprocessor	100x12.5x114	DIN rail
SCC622	RTD	Yes, using DCC502	2-wire, 4~20 mA	0.1%	1800 V AC	7.5 ~ 48	Microprocessor	100x12.5x114	DIN rail
TX1DR	RTD	No	2-wire, 4~20 mA	0.1%	NA	6.5 ~ 32	Analog	80x25x85	DIN rail
SCC621	RTD	No	2-wire, 4~20 mA	0.1%	NA	6.5 ~ 32	Analog	100x12.5x114	DIN rail
TX2DR	TC, mV	No	2-wire, 4~20 mA	0.1%	1500 V AC	10~30	Analog	80x25x85	DIN rail
TX2DR	RTD	No	2-wire, 4~20 mA	0.1%	1500 V AC	10~30	Analog	80x25x85	DIN rail
TX3DR	Universal	Yes	2-wire, 4~20 mA	0.1%	2000 V AC	11~32	Analog	75x45x110	DIN rail
SCC633	Universal	Yes, using HART programmer	2-wire, 4~20 mA, HART	0.1%	2000 V AC	10.5~45	Microprocessor	96x120	Field mount

CALIBRATORS

Precision calibrator - Radical




- 1uV / 1uA / 10m Ω resolution
- Measure / Source mV, mA, RTDs, thermocouples, ohms
- Simulate 4 to 20 mA transmitter
- 24V loop supply
- Step, ramp, % scale, min-max values
- 8~14 hours of use with Li-ion rechargeable battery

Universal portable calibrator - Microcal









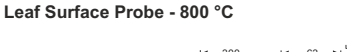





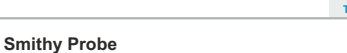








- High resolution : 0.1 °C or °F, 10 uV, 1 uA, 0.02 ohms
- Measure and Source, thermocouples, Pt100 RTD, mV & mA
- High accuracy : ± 0.02% of FS ± 2 counts (except ohms)
- Ni-cad batteries for 4 to 8 hours operation on single charge
- Available with NPL traceable internal or 3rd party certificate

HANDHELD THERMOMETERS

 <p>TC K DIGIRAD71</p>	 <p>Pt100 ACCURAD71</p>	 <p>UNIVERSAL UNIRAD</p>	 <p>RH+T HUMIRAD71</p>
<ul style="list-style-type: none"> Resolution : 0.1 / 1°C Display : 3 ½ digit, 7 segment 0.5" (12.7mm) LCD display with maximum reading of 1999 Accuracy : <ul style="list-style-type: none"> ± (0.3% of reading +1°C) -50°C to 1000°C ± (0.5% of reading +1°C) 1000°C to 1300°C 	<ul style="list-style-type: none"> Resolution : 0.1 / 1°C Display : 3 ½ digit, 7 segment 0.5" (12.7mm) LCD display with maximum reading of 1999 Accuracy : <ul style="list-style-type: none"> -150.0°C to 199.9°C : ± 0.3 °C -200°C to 600°C : ± 1°C 	<ul style="list-style-type: none"> Universal input : 8 TC, 3 RTD Resolution : 1, 0.1 Display : 4 digit, 7 segment 0.5" (12.7mm) LCD display with maximum reading of 9999 0.1% linearisation accuracy Software calibration - no trimpots 	<ul style="list-style-type: none"> Resolution : 0.1 Display : 3 digit, 7-segment, 0.5" (12.7mm) LCD display with maximum reading of 99.9 Accuracy : ± 2% RH ± 0.3°C Software calibration - no trimpots

THERMOCOUPLE & RTD PROBES

<p>Standard Immersion Probe</p>  <p>Pt100</p>	<p>Air Probe</p>  <p>TC K</p>	<p>Leaf Surface Probe - 400 °C</p>  <p>TC K</p>
<p>Standard Immersion Probe (MI)</p>  <p>Pt100</p>	<p>Standard Immersion Probe</p>  <p>TC K</p>	<p>Leaf Surface Probe - 600 °C</p>  <p>TC K</p>
<p>Quick Response Immersion Probe (MI)</p>  <p>Pt100</p>	<p>Quick Response Immersion Probe</p>  <p>TC K</p>	<p>Leaf Surface Probe - 800 °C</p>  <p>TC K</p>
<p>Teflon Coated Immersion Probe</p>  <p>Pt100</p>	<p>High Temperature Immersion Probe</p>  <p>TC K</p>	<p>Bow Curved Surface Probe</p>  <p>TC K</p>
<p>Needle Probe</p>  <p>Pt100</p>	<p>Teflon Coated Immersion Probe</p>  <p>TC K</p>	<p>Smithy Probe</p>  <p>TC K</p>
<p>Prick Probe</p>  <p>Pt100</p>	<p>Needle Probe</p>  <p>TC K</p>	<p>Rotary Surface Probe</p>  <p>TC K</p>
<p>Standard Immersion Probe</p>  <p>Pt100</p>	<p>Prick Probe</p>  <p>TC K</p>	
	<p>Air Probe</p>  <p>TC K</p>	

LEVEL GAUGES

Tubular Gauge



C-C distance : 400-3000mm
Range : Upto 150 °C and 10 kg/cm²

Reflex Gauge (Rear-rear)



C-C distance : 170-3000 mm
Range : Upto 400 °C and 210 kg/cm²

Reflex Gauge (side-side)



C-C distance : 170-3000 mm
Range : Upto 400 °C and 210 kg/cm²

Transparent Gauge



C-C distance : 170-3000 mm
Range : Upto 400 °C and 210 kg/cm²

Magnetic Gauge with Transmitter



C-C distance : 300-5000 mm
Range : Upto 400 °C and 100 kg/cm²

Magnetic Gauge with Switch



C-C distance : 300-5000 mm
Range : Upto 400 °C and 100 kg/cm²

Dip stick type with Switch



C-C distance : 300-5000 mm
Range : Upto 400 °C and 100 kg/cm²

Float & Board Gauge



Easy to install, modular design
Range : 1 - 15 meters
Liquid density : >0.8 g/cm

LEVEL

LEVEL SWITCHES

Float Guided Switch



Range : Upto 150 °C and 10 kg/cm²
Liquid density : >0.7 g/cm³

Cable Float Switch



Range : Upto 70 °C and 2 kg/cm²
Liquid density : >0.75 g/cm³

Side Mounted Switch



Range : Upto 350 °C and 20 kg/cm²
Liquid density : >0.7 g/cm³

Conductivity Switch



Range : Upto 80 °C and 5 kg/cm²

Displacer Switch



Range : Upto 300 °C and 100 kg/cm²

Capacitance Switch



Range : Upto 60 °C and 5 kg/cm²

Rotary Paddle Switch



For Solids
Ambient temperature & pressure
Bulk density : >0.5 g/cm³

Miniature Float Switch



Range : Upto 150 °C and 10 kg/cm²
Liquid density : >0.7 g/cm³

LEVEL TRANSMITTERS

Float Guided Level Transmitter



Range : Upto 150 °C and 10 kg/cm²
Liquid density : >0.7 g/cm³

Capacitance Type Level Transmitter



For liquids and solids
Range : Upto 60 °C and 5 kg/cm²

Submersible Level Transmitter (Internal mounting)



Slender design for narrow openings
Maximum temperature : 70 °C

Submersible Level Transmitter (External mounting)



Slender design for narrow openings
Maximum temperature : 70 °C

Radar Level Transmitter (Ex-proof)



Non contact type, Ex-proof option
Range : Upto 250 °C and 20 kg/cm²

Radar Level Transmitter (Contact - Rope Type)



Non contact type, Ex-proof option

Ultrasonic Level Transmitter



For Liquids and solids
Range : Upto 70 °C and 1 kg/cm²
LCD Display

Displacer Type Level Transmitter



For viscous and slurry type liquids
Range : Upto 300 °C and 100 kg/cm²

LEVEL

LEVEL CONTROLLERS

Panel Mounting



Wall Mounting



Din Rail Mounting



Ex Proof



With Volume Indicator



- Upto 4 set points
- Latching through DIP switch
- Site settable


IBR CERTIFIED MANUFACTURING FACILITY



Approved for use in Boiler Application

FLOW PRODUCTS


ELECTROMAGNETIC FLOW METER



FLANGE TYPE *SANDWICH TYPE* *TRI-CLOVER TYPE*

- Maximum temperature : 160 °C
- Maximum pressure : 20 Kg/cm²
- Flow velocity : 1 to 10 m³/s
- Communication - MODBUS, HART (optional)
- Rubber / PTFE / PFA lining
- Upto 20 µs conductivity

ULTRASONIC FLOW METER, TRANSDUCER UNIT



CLAMP ON TYPE *INSERTION TYPE* *IN-LINE TYPE*

- Maximum temperature : -30 to 70 °C
- Flow velocity : 0 to ±32 m³/s
- Communication - MODBUS

ULTRASONIC FLOW METER, TRANSMITTER UNIT (DISPLAY)



WALL-MOUNTED *HANDHELD (CLAMP ON TYPE)*

- Maximum temperature : -20 to 70 °C
- Flow velocity : 0 to ±32 m³/s
- Communication : MODBUS

PADDLEWHEEL FLOWMETER



- Service : Compatible water-based fluids
- Maximum temperature : 100 °C
- Maximum pressure : 22 kg/cm²

FLOW

FLOW PRODUCTS

THERMAL DISPERSION FLOW SWITCH

NON-MECHANICAL, LOW PRESSURE DROP



- Service : Compatible water-based fluids
- Range : Upto 85 °C and 34 kg/cm²

FLOTECT FLOW SWITCH

FIELD ADJUSTABLE, HIGH PRESSURE RATING



- Service : Compatible liquids and gases
- Range : Upto 205 °C and 138 kg/cm²

SIGHT GLASS INDICATORS



SUITABLE FOR LIQUIDS AND GASES
GLASSES CAN BE INDIVIDUALLY REMOVED & REPLACED

- Service : Liquids and gases
- Glasses can be individually removed and replaced
- Maximum temperature : 250 °C
- Maximum pressure : 100 kg/cm²

STRAINERS

Y-STRAINER

FLANGED TYPE, ½" TO 12", SCREWED & SOCKETED, ½" TO 2"
CAST STEEL & CAST STAINLESS STEEL



TEE STRAINER

FLANGED / BUTTWELDED, 4" TO 24"
CARBON STEEL & STAINLESS STEEL



DUPLEX STRAINER

FLANGED TYPE, 2" TO 12"
CARBON STEEL & STAINLESS STEEL



BASKET STRAINER

FLANGED TYPE, 4" TO 24"
CARBON STEEL & STAINLESS STEEL



PRESSURE GAUGES

Bourdon Type Industrial



SERIES PGB300

Bourdon Type Industrial



SERIES PGB301

With Sealed Unit & Cup Type Tension Flanges



SERIES PGS200

With Welded Sealed Unit



SERIES PGS400

With Sealed Unit & SS Tension Flanges



SERIES PGS300

With Plastic Seals



SERIES PGS700

With Sealed Unit & Flush Mounting



SERIES PGS500

With Sealed & Flanged Flush Diaphragm Seal



SERIES PGS900

With Sealed Unit & I-Section Flange



SERIES PGS600

With Diaphragm Seal for Pulp & Paper Industry



SERIES PGP200

With Flange & Extended Sealed Unit



SERIES PGS950

With Sealed Unit & Extension Capillary



SERIES PGS700

Contact Gauge



SERIES PGC200

Diaphragm Gauge for Low Pressure



SERIES PGD500

Diaphragm Gauge with Compact Capsule



SERIES PGD600

Sanitary Gauges



SERIES PGF300

With SMS connection



SERIES PGF400

With Threaded Seal



SERIES PGS810

Pressure Transmitters



- With Triclover
- With Mini Sealed Unit
- With Welded Sealed Unit
- With Flush Diaphragm
- With Plastic Seal

SIGNAL ISOLATORS



Model	Size HxWxD mm	Input	No. of Output	Output	Supply	Display	Mounting	Remarks
SI3P	75x55x110	Voltage, Current, TC/RTD, etc	1	0/4~20 mA, 0~10 V, etc	85~265 V AC, 50/60 Hz / 17~35 V DC	–	DIN rail	Most popular
SI3P	75x55x110	Load Cell	1	0/4~20 mA, 0~10 V, etc	85~265 V AC, 50/60 Hz / 17~35 V DC	–	DIN rail	New
SI4P	75x45x110	0/4~20 mA	2	0/4~20 mA	17~35 V DC	–	DIN rail	1 Kohm load, Line fault detection
SI4P	75x55x110	0/4~20 mA	2	0/4~20 mA	85~265 V AC, 50/60 Hz	–	DIN rail	1 Kohm load, Line fault detection
SCC301	80x25x85	0/4~20 mA	1	0/4~20 mA	20~35 V DC	–	DIN rail	HART compatible
SCC311	75x55x110	Universal	1, 2	0/4~20 mA, 0~10 V, etc	85~265 V AC, 50/60 Hz / 20~30 V DC	4 digit LED	DIN rail	Programmable, RS485/MODBUS
SCC313	100x22.5x114	Universal	1, 2	0/4~20 mA, 0~10 V, etc	85~265 V AC, 50/60 Hz / 18~42 V DC	–	DIN rail	Programmable, RS485/MODBUS
SCC314	100x22.5x114	AC Voltage, DC Voltage, AC Current, DC Current	1, 2	0/4~20 mA, 0~10 V, etc	85~265 V AC, 50/60 Hz / 18~42 V DC	–	DIN rail	Programmable, RS485/MODBUS
SCC401	100x22.5x114	Voltage, Current, TC/RTD, Ohms, etc	1	0/4~20 mA, DC Volts	85~265 V AC, 50/60 Hz / 20~36 V DC	–	DIN rail	High Accuracy
SCC402	100x22.5x114	AC Voltage, DC Voltage, AC Current, DC Current	1	0/4~20 mA, DC Volts	85~265 V AC, 50/60 Hz / 20~36 V DC	–	DIN rail	High Accuracy
VISO	75x55x110	0~±10 V, 0~250hz	1, 2	0~±10 V, 0~250 Hz	17~35 V DC	–	DIN rail	For AC & DC signals
MSI7P	75x100x110	Universal	3, 4, 5	0/4~20 mA, 0~10 V, etc	85~265 V AC, 50/60 Hz / 20~35 V DC	2x16 LCD	DIN rail	Programmable, RS485/MODBUS
MSI7P	75x100x110	Oxygen Lambda Sensor	1, 2	0/4~20 mA, 0~10 V, etc	85~265 V AC, 50/60 Hz / 20~35 V DC	2x16 LCD	DIN rail	Programmable, RS485/MODBUS
MSI7P	75x100x110	Oxygen Probe (Carbon Potential)	1, 2	0/4~20 mA, 0~10 V, etc	85~265 V AC, 50/60 Hz / 20~35 V DC	2x16 LCD	DIN rail	Programmable, RS485/MODBUS

ANALOG INPUT MODULES



Model	No. of Channels	Input type	Input User Programmable	Input Channel-to-Channel Isolation	Communication Port	Supply	Size HxWxD in mm	Mounting
SCM201	8	Universal	Yes, through keys	No	RS485	17~60 VDC, 85~265 VAC	75x100x110	DIN rail
SCM203	8	Universal	Yes, through keys	No	Ethernet	15~30 VDC, 85~265 VAC	75x100x110	DIN rail
SCM211	4	Universal	Yes, through keys	300 VAC or 400 VDC	RS485	15~30 VDC, 85~265 VAC	75x100x110	DIN rail

PROTOCOL CONVERTERS & GATEWAYS



Model	Description	Utility Software	Supported Serial Parameter	Enclosure/ Mounting	Power Inputs
DCC201	SERIAL TO ETHERNET CONVERTER	Available	Configurable baud rate, parity, data bits, stop bits, IP address	DIN Rail, 22.5mm wide	DC jack or terminal
DCC202	SERIAL TO ETHERNET CONVERTER WITH PoE	Available	Configurable baud rate, parity, data bits, stop bits, IP address	DIN Rail / Surface	PoE (IEEE 802.3af, Class 1) and DC jack
DCC203	MULTIHOST SERIAL TO ETHERNET CONVERTER	Available	Configurable baud rate, parity, data bits, stop bits, IP address	DIN Rail / Surface	PoE (IEEE 802.3af, Class 1) and DC jack
DCC211	SERIAL TO ETHERNET CONVERTER WITH DUAL MASTERS	Available	Configurable baud rate, parity, data bits, stop bits, IP address	DIN Rail / Surface	PoE (IEEE 802.3af, Class 1) and DC jack
DCC301	RS232-RS485 CONVERTER	NA	ANY	DIN Rail / Surface	DC jack or terminal
DCC302	RS485 REPEATER	NA	ANY	DIN Rail / Surface	DC jack or terminal
DCC501	USB TO SERIAL CONVERTER - ISOLATED	NA	NA	DIN Rail / Surface	PC
DCC503	USB TO HART CONVERTER - ISOLATED	NA	Configurable baud rate, parity, data bits, stop bits, IP address	DIN Rail / Surface	PC
DCC505	USB TO RS485 CONVERTER - ISOLATED	Available	Configurable baud rate, parity, data bits, stop bits, IP address	DIN Rail / Surface	PC
DCC621	ETHERNET I/O Module	Available	Configurable baud rate, parity, data bits, stop bits, IP address	DIN Rail 35 mm wide	PoE (IEEE 802.3af, Class 1)
DCC602	ETHERNET I/O Module	Available	Configurable baud rate, parity, data bits, stop bits, IP address	Surface / Wall mount	PoE (IEEE 802.3af, Class 1) and DC Jack

COMMUNICATION PRODUCTS

SCANNERS

MULTI-CHANNEL SCANNERS



ISOSCAN-H



ISOSCAN-V



- Upto 16 inputs/16 outputs
- For Temperature, Pressure, Flow, Level, RH, Conductivity, etc.
- Various Input(X)/Output(Y) combinations : X4Y0, X4Y8, X8Y4, X8Y16, X16Y16, etc
- Universal Input

- 3 key, 5 level programming
- 5 software versions : Indicator, Multisetpoint, Grouping, etc
- RS485 with MODBUS RTU
- FDA21CFR Part11 compliant SCADA version
- 85~265 V AC SMPS or 24 V DC supply

Additional features for Tmax version

- Password protection for program mode
- 4~20 mA output

8 - CHANNEL SCANNER



ISOTHERM

- Upto 8 inputs / 4 relays / 2 isolated 4~20 mA outputs
- Universal input
- 3 key, 5 level programming
- Setpoint and level locks
- RS485 with MODBUS RTU
- FDA21CFR Part11 compliant SCADA version also
- 85~265 V AC SMPS or 24 V DC supply
- 96x96x220 mm

LOOP POWERED INDICATORS



SD201



SD202



PLD40



PLD40



PLD40

Model	Size hxxwxd mm	Input	Mounting	Loop Drop	Display	Remarks
SD201	80x120x55	4~20 mA	Field / wall mount	<1V	LCD, 12.7 mm x 3.5 digit	0.025% accuracy, very low loop drop
SD202	80x120x55	4~20 mA	Field	<1V	LCD, 50.8 mm x 3.5 digit	0.025% accuracy, very low loop drop
PLD40	138x138x165	4~20 mA	2" Pipe	5V	LED, 14.2 mm x 4 digit	Programmable, 0.1% accuracy, square root function
PLD40	80x120x55	4~20 mA	Field / wall mount	5V	LED, 14.2 mm x 4 digit	Programmable, 0.1% accuracy, square root function
PLD40	48x96x100	4~20 mA	Panel mount	5V	LED, 14.2 mm x 4 digit	Programmable, 0.1% accuracy, square root function

CONTROL PANELS



PANELS AS PER YOUR REQUIREMENTS

- VFD control panel
- Heater control panel
- Hydraulic power pack control panel
- Test bench
- Signal isolator panel
- PLC control & monitoring panel
- Starter panel
- Alarming panel
- Scanner control panel
- FLP instrument control panel
- FRP instrument panel
- Annunciator panel
- Pressure gauge panel
- DDC/HVAC panel

TIMERS, COUNTERS & RATE INDICATORS



Product	Model	Size hxxxd mm	Setpoints	Retransmission Output	Supply	Display Digits	Non-volatile Memory	Remarks
RPM/Rate indicator with totaliser	RCT203	48x96x100	0	0	85~265 V AC OR 24 V DC	6	Yes	–
RPM/Rate indicator with alarms	RCT206	48x96x100	2	1	85~265 V AC OR 24 V DC	6+6	No	–
Preset counter with RPM/Rate indicator	RCT301	72x72x100	2	1	85~265 V AC OR 24 V DC	6+6	Yes	–
Preset counter	RCT403	72x72x100	1	0	85~265 V AC OR 24 V DC	6	Yes	Pushwheel switch, 6-digit
Multifunction memory timer	RCT601	48x48x100	2	0	85~265 V AC	4	Yes	9 ranges, 4 functions, configurable control inputs
Multifunction memory timer	RCT602	48x48x100	2	0	85~265 V AC	4+4	Yes	9 ranges, 12 functions, configurable control inputs
Multifunction memory timer	RCT604	72x72x100	2	0	85~265 V AC OR 24 V DC	4	Yes	9 ranges, 4 functions, configurable control inputs
Multifunction memory timer	RCT606	72x72x100	1	0	85~265 V AC OR 24 V DC	4	Yes	Pushwheel switch, configurable control inputs
Multifunction non-memory timer	RCT702	48x48x100	2	0	85~265 V AC	4+4	No	9 ranges, 12 functions, configurable control inputs
Digital Din rail timer	T25	80x25x85	2	0	20~265 V AC/DC, 50/60 Hz	2	No	Standard, Star/ Delta, Forward / Reverse

SCR POWER REGULATORS

TPR201 WITH 35A



- Single phase
- Control input - Auto - 4~20mA, 0-5 VDC, 1-5 VDC, 0-10VDC, 2-10 VDC
- Analog

TPR201/50/60/80/100A



- Three Phase
- Control input - Auto - 4~20mA, 0-5 VDC, 1-5 VDC, 0-10VDC, 2-10 VDC
- Phase angle control
- Analog

DPU SERIES



- Three Phase
- Control input - Auto - 4~20mA, 0-5 VDC, 1-5 VDC, 0-10VDC, 2-10 VDC
- Phase angle and zero cross over control
- RS485 Communication
- Digital Display

FLAMEPROOF, WEATHERPROOF PRODUCTS



Product	Model	Setpoint(s)	Display Digits	RS485 / MODBUS RTU	Supply	Gas groups	Degree of Protection	Mounting
PID CONTROLLERS								
Autotune PID Controller	X96P	5	4+4+3	YES	85~265 VAC OR 20~35 VDC	I, IIA & IIB	IP 65	Wall
Autotune PID Controller	X96	5	4+4	YES	85~265 VAC OR 20~35 VDC	I, IIA & IIB	IP 65	Wall
Autotune PID Controller	X48V1	3	4+4	NO	85~265 VAC OR 20~35 VDC	I, IIA, IIB & IIC	IP 66	2" pipe mounting
ONOFF CONTROLLERS								
Programmable ONOFF Controller	X96A	4	4+4	YES	85~265 VAC OR 20~35 VDC	I, IIA & IIB	IP 65	Wall
Programmable ONOFF Controller	X96AV1	4	4+4	YES	85~265 VAC OR 20~35 VDC	I, IIA & IIB	IP 65	Wall
Programmable ONOFF Controller	X48AV1	3	4+4	YES	85~265 VAC OR 20~35 VDC	I, IIA, IIB & IIC	IP 66	2" pipe mounting
Programmable ONOFF Controller	TC96	2	4+4	NO	85~265 VAC OR 20~35 VDC	I, IIA & IIB	IP 65	Wall
Programmable ONOFF Controller	TC49SU	2	4	NO	85~265 VAC OR 20~35 VDC	I, IIA & IIB	IP 65	Wall
Programmable Temperature Indicator	TEC301	0	4	NO	85~265 V AC	I, IIA & IIB	IP 65	Wall/Pipe
Programmable Temperature Controller	TEC302	1	4+4	NO	85~265 V AC	I, IIA & IIB	IP 65	Wall/Pipe
Programmable Temperature Controller	TC48V3	2	4+4	NO	85~265 VAC OR 20~35 VDC	I, IIA, IIB & IIC	IP 66	2" pipe mounting
Differential Temperature Controller	X96Delta	4	4+4+4	YES	85~265 VAC OR 20~35 VDC	I, IIA & IIB	IP 65	Wall
SCANNER								
Multi-channel Scanner	ISOSCAN	16	4.5+4.5+2	YES	85~265 VAC OR 20~35 VDC	I, IIA & IIB	IP 55	Wall
FLOW RATE INDICATOR / TOTALISER								
Flow Rate Indicator / Totaliser	FLT601 FLT401	4	8+6 / 6+4	YES	85~265 V AC 20~35 V DC	I, IIA & IIB	IP 65	Wall
RPM/RATE INDICATORS, TIMERS, COUNTERS								
Programmable Rate Indicator	RCT202	0	4	NO	85~265 V AC OR 24 V DC	I, IIA & IIB	IP 65	Wall
RPM/Rate Indicator with Alarm	RCT206	2	6+6	NO	85~265 V AC OR 24 V DC	I, IIA & IIB	IP 65	Wall
Preset Counter with Rate Indicator	RCT301	2	6+6	NO	85~265 V AC OR 24 V DC	I, IIA & IIB	IP 65	Wall
Multifunction Memory timer	RCT605	2	4+4	NO	85~265 V AC OR 24 V DC	I, IIA & IIB	IP 65	Wall

Product	Model	Input	Output	Input / Output Isolation	Supply	Local Display	Gas groups	Degree of Protection	Mounting
ISOLATORS, TRANSMITTERS									
2-wire Programmable, Isolated Temperature Transmitter	TX3DR	Universal	4~20 mA	YES	11~32 V DC loop supply	4 digit LED	I, IIA, IIB & IIC	IP 66	2" pipe
2-wire Temperature Transmitter	TX1HM	Pt100	4~20 mA / 20~4 mA	NO	6.2~32 V DC loop supply	LED for Power On status	I, IIA & IIB	IP 65	2" pipe
2-wire Temperature Transmitter	SCC633	Universal	4~20 mA	YES	10.5~45 V DC	Backlit LCD display	I, IIA & IIB	IP 65	Field
2-wire RH+T Transmitter	SC804	RH+T sensor	2 x 4~20 mA	NO	11.5~32 V DC loop supply	4 digit LED	I, IIA, IIB & IIC	IP 66	Surface
2-wire RH+T Transmitter	SC806	RH+T sensor	2 x 4~20 mA	NO	4.5~32 V DC loop supply	NA	I, IIA & IIB	IP 66	Wall, Duct
RH+T Transmitter	RHT811	-	2 x 4~20 mA / 0~10 V	NO	18~36 V DC / 20~32 V AC	Backlit LCD display	I, IIA & IIB	IP 66	Surface
DP Transmitter	DPT511	-	2 x 4~20 mA / 0~10 V	NO	18~36 V DC / 20~32 V AC	Backlit LCD display	I, IIA & IIB	IP 66	Surface
2-wire DP Transmitter	DPT501	-	4~20 mA	NO	12~32 V DC	Backlit LCD display	I, IIA & IIB	IP 66	Surface
RH+T CONTROLLER									
RH+T Onoff Controller	HX96A	Remote sensor	4~20 mA	YES	85~265 V AC OR 20~30 V DC	4 digit LED	I, IIA & IIB	IP 65	Wall
LOOP POWERED INDICATORS									
Loop Powered Indicator	PLD40	4~20 mA	-	NA	NA	4 digit LED	I, IIA, IIB & IIC	IP 66	2" pipe
Loop Powered Indicator	PLC40	4~20 mA	-	NA	NA	4 digit LCD	I, IIA, IIB & IIC	IP 66	2" pipe

TECHNICAL SUPPORT

Our in-house team of 100 process instrumentation engineers is available to help you in selecting the right products for your demanding applications.



- Application assistance
- Product selection
- Formal quotation
- Dedicated service team
- Installation & usage guidance

OUR FEW MARQUEE CUSTOMERS - BEST AND BIGGEST

