



# PRODUCT BROCHURE

PROCESS INSTRUMENTS & SOLUTIONS



**YADEV INSTRUMENTS & AUTOMATION PVT LTD**

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## Yadev Instruments and Automation Pvt Ltd

### YAGAN RTD(PT100)



Type	:	PT100
Range	:	-250 to 650 Deg.C
Connection Type	:	2, 3, 4 Wire Connection
Stem Length	:	Customizable
Size	:	Customizable

### YAGAN Thermocouple



Type	:	J,K,R,S,T Types
Range	:	-200 to 1380 Deg.C
Connection Type	:	2 Wire Connection
Stem Length	:	Customizable
Size	:	Customizable

### Pressure Transmitter



Type	:	With/Without Display
Range	:	-1 to 1000 bar
Connection Type	:	2, 3, 4 Wire Connection
Output Range	:	4-20mA/0-10V/RS485
Thread Size	:	Customizable

### Flow Transmitter



Type	:	With/Without Display
Range	:	0 to 13 m3/hr
Connection Type	:	2, 3, 4 Wire Connection
Output Range	:	4-20mA/0-10V/RS485
Thread Size	:	Customizable

### YAGAN Temp/Humidity Sensor



Type	:	With/Without Display
Temp Range/Acc	:	0 to 70 Deg.C / +/- 0.5 Deg.C
Humidity Ranges/Acc	:	0 to 95% RH / +/-2% RH
Connection Type	:	2, 3, 4 Wire Connection
Output Range	:	4-20mA/0-10V/RS485

### YAGAN DP Transmitter



Type	:	Without Display
Range	:	0 to 30 PSI
Supply	:	24V DC
Output Range	:	4-20mA/0-10V
Thread Size	:	Customizable

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### YAGAN Jumbo Process Indicator



Type : With Display  
 Range : -999 to 9999 Deg.C  
 Supply : 230V AC/24V DC  
 Digits : 4  
 Size : Customizable

### YAGAN Jumbo Incident Indicator



Type : With Display  
 Range : -  
 Supply : 230V AC/24V DC  
 Digits : 4  
 Size : Customizable

### Pressure Gauge



Type : Analog Type  
 Range : -1 to 1000 bar  
 Material : Customizable  
 Thread Size : Customizable

### Temperature Gauge



Type : Analog Type  
 Range : -200 to 1380 Deg.C  
 Material : Customizable  
 Thread Size : Customizable

### Sound Level Transmitter



Type : With Display  
 Range : 30 to 130 dB  
 Connection Type : 2, 3, 4 Wire Connection  
 Output Range : 4-20mA/0-10V  
 Thread Size : Customizable

### Smart Temp,RH and CO2 Sensor



Type : With Display  
 Range : -35 to 85 C/0 to 100% RH/  
 0-2000 PPM  
 Supply : 24V DC/AC  
 Output Range : 230V AC  
 Communication : Modbus RTU

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Portable Measuring Instruments

## Temp/Humidity Meter



Parameters : Temp/Humidity/Clock  
 Range : -  
 Type : Portable  
 Connection Type : Battery powered

## Digital Pen Thermometer



Type : Portable(Pen Type)  
 Range : -50 to 300 Deg.C  
 Connection Type : Battery powered  
 Size : -

## Moisture Meter



Type : Pin Type  
 Range : 7% to 99.9%  
 Connection Type : Battery Powered

## LUX Meter



Range : 0 to 99999 LUX  
 Resolution : 1 LUX  
 Accuracy : +/- 3 LUX  
 Connection Type : Battery Powered  
 Protection Class : IP40

## Anemometer



Temp : 0 to 60 Knots / 0 to 60 mph  
 Resolution : 2 Knots  
 Connection Type : Battery Powered

## Thickness Meter



Range : 1.2 to 200.0 mm  
 Accuracy : +/- 0.5%  
 Resolution : 0.1 mm  
 Connection Type : Battery Powered



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## pH Meter



Type : Portable(Pen Type)  
 Range : 0 - 14  
 Resolution : 0.01  
 Connection Type : Battery powered

## YAGAN TDS,Cond Meter



Type : Portable(Pen Type)  
 Range : 1000 ppm/2000  $\mu$ S  
 Resolution : 1 ppm/1,0.1 $\mu$ S  
 Connection Type : Battery powered

## Online pH Meter



Type : Online pH Meter  
 Range : 0 to 14  
 Connection Type : 230V AC/24V DC  
 Output Type : 4-20 mA/0-10V/RS232

## Online TDS,Cond Meter



Range : 1000 ppm/2000  $\mu$ S  
 Resolution : 0.1 ppm/0.1  $\mu$ S  
 Digits : 4  
 Connection Type : 230V AC

## Refracto Meter



Type : Analog/Digital  
 Range : 0 to 100% Brix  
 Accuracy : +/-0.1 %  
 Resolution : 0.1 %  
 Connection Type : Battery Powered

## Online DO Meter



Range : 0 to 20 mg/l  
 Accuracy : +/- 1.5mg/l  
 Resolution : 0.01 mg/l  
 Connection Type : Battery Powered

Measuring Instruments

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### YAGAN Controllers



**Input :** 0-20mA/4-20mA/0-10V  
**Output :** Customizable  
**Supply :** 230V AC/24V DC  
**Accuracy :** +/-1 %

### PLC & IioT Controllers



**Input :** AI/DI  
**Output :** AO/DO  
**Communication :** All Comm. Types  
**Supply :** 230V AC/24V DC/110V AC  
**Other Specs :** Customizable

### HMI



**Display Size :** 4 inch to 21 inch  
**Display Type :** TFT  
**Communication :** All Comm. Types  
**Supply :** 230V AC/24V DC/110V AC  
**Other Specs :** Customizable

### Remote I/O Modules



**Type :** Input/Output/Power Supply  
**Comm**  
**Supply :** 230V AC/24V DC/110V AC  
**Other Specs :** Customizable

### VFD



**Supply :** 1 Phase/3 Phase  
**Other Tech Specs. :** Customizable

### Servo



**Supply :** 1 Phase/3 Phase  
**Other Tech Specs. :** Customizable

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### Modbus RTU to Modbus TCP



Supply : 24V DC  
 Communication : 1xRS-485,1xEthernet  
 Operating Environment : 0 to 55 Deg.C, 0 to 90% RH

### Modbus to MQTT



Supply : 24V DC  
 Interface : 1xRS-485,1xEthernet  
 Operating Environment : 0 to 60 Deg.C  
 Protocol Supports : Modbus RTU to MQTT  
 Modbus TCP/IP to MQTT  
 Nodes Supports : Upto 20 Nodes for Modbus RTU

### BACnet IP to Modbus



Supply : 24V DC/AC  
 Communication : 1xRS-485/232,1xEthernet  
 Operating Environment : 0 to 60 Deg.C, 10 to 90% RH  
 Nodes Supports : RS485 port supports 31 nodes/  
 247 nodes supporting for  
 Modbus TCP.

### Modbus to BACnet IP



Supply : 24V DC/AC  
 Communication : 2xRS-485,1xEthernet  
 Operating Environment : 0 to 55 Deg.C, 10 to 90% RH  
 Nodes Supports : 2xRS485 Modbus RTU supporting  
 upto 62 nodes. Each port  
 supports 31 nodes/247 nodes  
 supporting for Modbus TCP.

### USB TO SERIAL(RS232/RS485)



Supply : Supports USB bus power  
 Compliance : USB 2.0 compatible  
 RS232/485 connections : Rx, Tx, GND/D+, D-, GND  
 Operating systems : Windows 10, 8/8.1/7/Vista/ XP/  
 98/XP,MBEDD/Mac OS 8/9/  
 Linux 2.4 and greater

Convertors



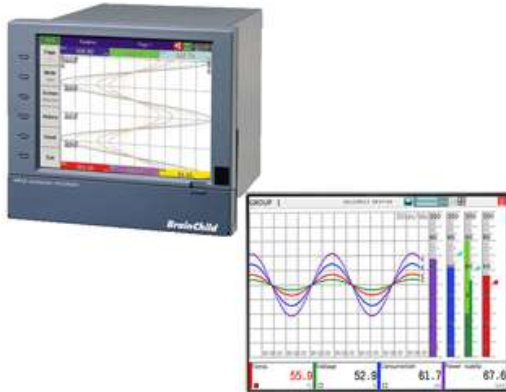
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## YOKOGAWA Data Logger



- Input Type : DC voltage, 1-5V, thermocouple (TC), resistance temperature detector (RTD), ON/OFF input (DI), and DC current (by adding an external shut resistor)
- Range : DC Voltage - 20mV to 50V, 1 to 5V  
TC - R,S,B,K,E,J,T,N,W,L,U Type  
RTD - -200 to 600 Deg.
- Sampling Time : 125 ms to 5s
- No.of Channels : 2 to 48
- Display : 5.7-inch TFT color LCD
- Mounting : Panel Mounting
- Communication : TCP/IP,RS232/485
- Power Supply : 230V AC/24V DC

## BrainChild Data Logger



- Input Type : DC voltage, 1-5V, thermocouple (TC), resistance temperature detector (RTD), ON/OFF input (DI), and DC current (by adding an external shut resistor)
- Range : DC Voltage - 20mV to 50V, 1 to 5V  
TC - R,S,B,K,E,J,T,N,W,L,U Type  
RTD - -200 to 600 Deg.
- Sampling Time : 125 ms to 5s
- No.of Channels : 3 to 48
- Display : 4.3 to 12.1-inch TFT Touch screen
- Mounting : Panel Mounting
- Communication : TCP/IP,RS232/485
- Power Supply : 230V AC/24V DC

## Temp/RH Data Logger



- Input Range : -30 to 70 Deg.C
- Power Supply : Battery Powered
- Accuracy : +/- 0.5 Deg.C
- Max Record Points : 32000

Data Loggers



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## YAGAN Gas Detectors



Gas Type : O<sub>2</sub>,N<sub>2</sub>,H<sub>2</sub>,CO,CO<sub>2</sub>,LPG  
 Supply : 230V AC/24V DC  
 Output : 4-20mA/0-10V/RS485

## YAGAN Flame Proof Gas Detectors



Gas Type : O<sub>2</sub>,N<sub>2</sub>,H<sub>2</sub>,CO,CO<sub>2</sub>,LPG  
 Supply : 230V AC/24V DC  
 Material : Flameproof  
 IP Rating : IP65  
 Output : 4-20mA/0-10V/RS485

## YAGAN Wireless Transmitter



Category : Wireless Ethernet,Wireless serial, Wireless I/O,Cables & Antenna's,GSM

## YAGAN Remote Weather System



Air Temp Range : 0 to 100 Deg.C  
 Humidity Range : 5 to 95% RH  
 Solar Radiation Range : 0 to 2000W/m<sup>2</sup>  
 Air Quality Range : 10 - 500 ppm  
 Wind Speed Sensor Range : 0 to 20m/S  
 Conection Type : Battery Powered

## YAGAN Portable Weather system



Air Temp Range : 0 to 100 Deg.C  
 Humidity Range : 5 to 95% RH  
 Solar Radiation Range : 0 to 2000W/m<sup>2</sup>  
 Air Quality Range : 10 - 500 ppm  
 Wind Speed Sensor Range : 0 to 20m/S  
 Conection Type : Battery Powered

## YAGAN Pyranometer



Air Temp Range : 0 to 100 Deg.C  
 Humidity Range : 0 to 100% RH  
 Input Range : 2x4 to 20mA  
 Accuracy : +/- 0.25%  
 Display Type : Red LED  
 Supply : 230V AC

Gas Detectors & Transmitters

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## SCADA System

YIA SCADA systems - the right system for every branch of industry



- Chemical and pharmaceutical industries
- Automotive industry
- Food, beverage and tobacco industries
- Machine and plant construction
- Plastics and rubber industries
- Metal processing and steel industries
- Paper production and processing
- Printing industry
- Logistics
- Water and wastewater treatment
- Shipping and transport solutions
- Power supply and distribution
- Oil & gas supply and distribution
- Building control technology and property management
- Research



## YAGAN Control Panel



- PLC Control Panel
- HMI Panel
- Motor Control Panel
- Power Control Panel
- VFD Panel
- Wiring Harness
- Custom panels

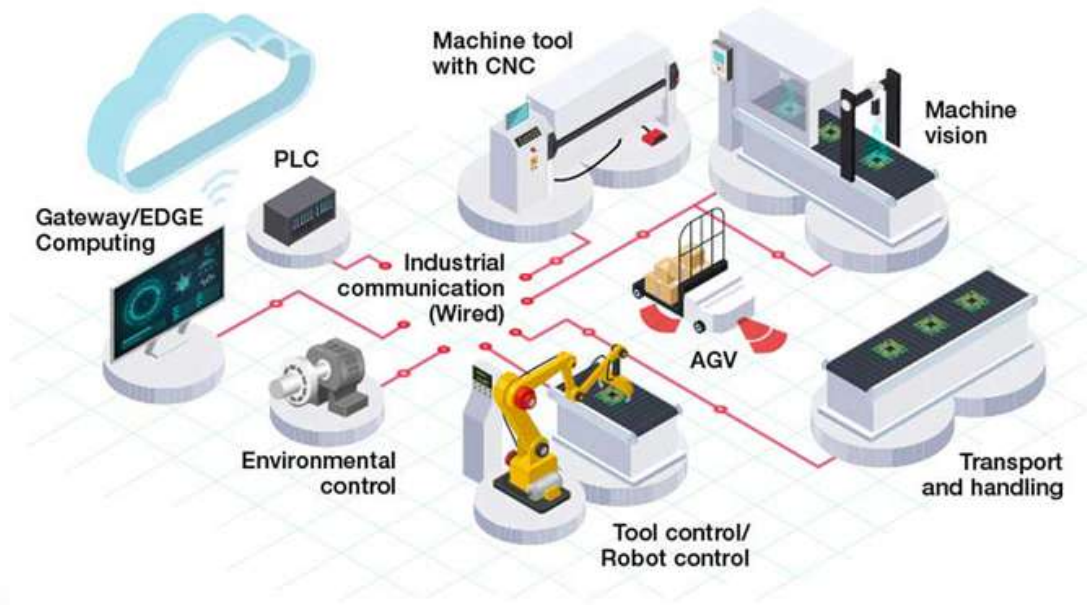


SCADA & Control Panels



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Industry 4.0



### Bridging the gap between OT and IT Architectures

- It is the cloud-based, Open Industrial IoT Platform that provides the technology you need for the industrial world. It is The Industrial Cloud.
- It connects any products, plants, systems and machines be they new or legacy.
- It allows the data generated by the Internet of Things (IoT) to be processed simply and intuitively with advanced analysis.
- It bridges layers between IT and OT architecture, providing effective tools to access all the industry 4.0 benefits, such as asset performance management, predictive maintenance and OT remote monitoring





# Yadev Instruments and Automation Pvt Ltd

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