



TECHNICAL DATASHEET

PRODUCT NAME

Jumbo Process Indicator

PRODUCT CODE

PRxx

PRxx-5D

CATEGORY

Digital Instruments



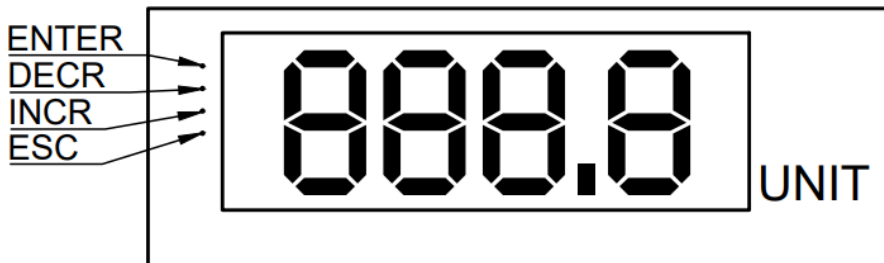
FEATURES

- Input : 4-20 mA
- Display Size : 2", 4", 6", 8", 12"
- RS485 Modbus Slave (optional)
- Transmitter power supply (optional)
- High Brightness day visible display
- Both Side Display (optional)

APPLICATIONS

- Process value measurement
- Jumbo display in plant area
- Pressure /Temperature/Flow level Monitoring

BLOCK DIAGRAM



PRODUCT DESCRIPTION

Jumbo Process indicators are large display units which can be monitored from distance ranging from 20m (60 ft) upto 200m (600 ft).

This Jumbo display allows process values to be monitored throughout the plant area and provides clear visibility to all stakeholders.

They are used to display process parameters like flow rate, temperature, level speed, pH, power generation etc.

They can be directly connected to a 4-20 mA sensor or interfaced with SCADA/ PLC using Modbus. Display of the process Indicators can either be seven segment displays or dot LED display. Additional features like auto cutoff relay, limit settings, both side display etc can also be given if required.

We can custom build the indicator to include new features if required by the customer.

TECHNICAL SPECIFICATIONS

ANALOG INPUT		
Input Signal	Current	4-20 mA
		0-20 mA (optional)
	Voltage	0.4-2V
		0-5V (optional)
0-10V (optional)		
		0-2V (optional)
Accuracy	±0.1% of FS ± 1Digit	
ADC Resolution	17 bits	
Sampling Rate	4 Samples/Sec	
Input Impedance	> 840 kΩ for 0-5V,1-5V,0-10V	
Max Voltage	20VDC	
Range	PRxx	0 to 9999 -999 to 9999
	PRxx -5D	0 to 99999 -9999 to 99999

Table 1

DISPLAY AND KEYS	
Keys	ESC, INCR, DECR, ENTER
Decimal Point	Fixed. Settable on-site
Digits	PRxx : 4
	PRxx -5D : 5
Display Color	Red
Display Type	Refer Table 11, 12
Display Height	Refer Table 11, 12
Viewing Distance	Refer Table 11, 12

Table 2

CONNECTORS	
Power Connection	Live, Neutral, Earth
Power Supply TB Type	3 Pin Barrier Terminal
Signal Connection	+ -
Power Supply TB Type	2 Pin Barrier Terminal

Table 3

Power Supply	
Supply Voltage	85-265VAC
Power consumption	Refer model Table 11,12
Transmitter Power Supply (Optional)	24VDC (±10%) @50mA

Table 4

ENVIRONMENTAL	
Operating Temperature	0-55 °C
Storage Temperature	0-80 °C
Humidity	20-95% RH non-condensing

Table 5

DIGITAL INPUT (OPTIONAL)	
Protocol	MODBUS
Interface	RS485, TCP/IP
Type	Slave / Master
Data Type	UInt32, Float32, Integer32
Baudrate	9600
Data Bits	8
Stop Bits	1
Parity	None
ID	Configurable
IP Address	Configurable

Table 6

OUTPUT	
Alarm Output (Optional)	
Relays	2 Nos
Type	Single Changeover (C,NO,NC)
Rating	5A @ 230VAC/ 30VDC
Communication (Optional)	
Interface	RS485 (2 Wire)
Protocol	Modbus-RTU
Baudrate	9600
Stop Bits	1
Parity	None
Data Bits	8

Table 7

PHYSICAL	
Ingress Protection Class	IP54 IP65 (Optional)
Mounting	Refer Table 11, 12
Overall Dimensions	Refer Table 11, 12
Display Dimensions	Refer Table 11, 12
Weight	Refer Table 11, 12
Enclosure	MS Power Coated
Terminal Cable Size	2.5 mm2

Table 8

All specifications are subject to change without notice due to continuous improvement.

DISPLAY SELECTION METHOD

By Viewing Distance

VIEWING DISTANCE	DISPLAY HEIGHT	
4 m	0.5 Inch	12 mm
8 m	1 Inch	25 mm
20 m	2 Inch	50 mm
50 m	4 Inch	100 mm
100 m	6 Inch	150 mm
125 m	8 Inch	200 mm
200 m	12 Inch	300 mm

Table 9

By Area / Environment

DISPLAY TYPE	USE CASE
FnD Display	Indoor
DoT LED Display	Outdoor. Day Visibility in direct sunlight
P10 Matrix Display	Outdoor. Viewing distance over 200 meters

Table 10



FnD Display



Dot LED Display

MODEL WISE SPECIFICATIONS

Product Code: PRxx

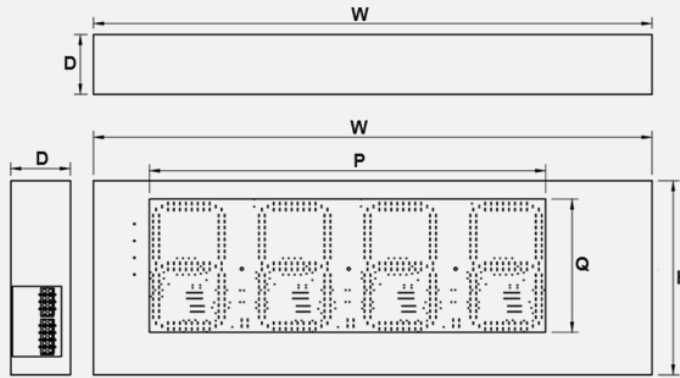


Figure 2: PRxx

Model	Display Height	Display Type	Viewing Distance	Mounting Type	Display Dimensions (P x Q) mm	Overall Dimensions (H x W x D) mm	Weight	Power Consumption
Single Side Display								
PR02	2"	FnD	20 meter	DIN Standard	200 x 70	144 x 288 x 160	2 kg	<3W
PR04	4"	FnD	50 meter	Wall mounting	370 x 125	190 x 460 x 80	3 kg	<4W
PR06	6"	Dot LED	100 meter	Wall mounting	525 x 175	260 x 750 x 80	4.5 kg	<12W
PR08	8"	Dot LED	125 meter	Wall mounting	590 x 205	280 x 800 x 80	5 kg	<14W
PR12	12"	Dot LED	200 meter	Wall mounting	920 x 310	480 x 1120 x 80	9 kg	<20W
Both Side Display								
PR04DS	4"	FnD	50 meter	Roof Hanging	370 x 125	190 x 460 x 160	6 kg	<8W
PR06DS	6"	Dot LED	100 meter	Roof Hanging	525 x 175	260 x 750 x 160	9 kg	<24W
PR08DS	8"	Dot LED	125 meter	Roof Hanging	590 x 205	280 x 800 x 160	10 kg	<28W
PR12DS	12"	Dot LED	200 meter	Roof Hanging	920 x 310	480 x 1120 x 160	18 kg	<40W

Table 11

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Product Code: PRxx-5D

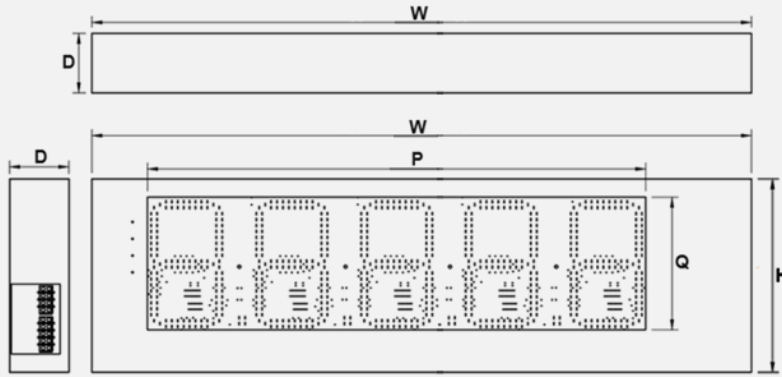


Figure 3: PRxx-5D

Model	Display Height	Display Type	Viewing Distance	Mounting Type	Display Dimensions (P x Q) mm	Overall Dimensions (H x W x D) mm	Weight	Power Consumption
Single Side Display								
PR02-5D	2"	FnD	20 meter	DIN Standard	250 x 70	144 x 330 x 160	2.5 kg	<4W
PR04-5D	4"	FnD	50 meter	Wall mounting	460 x 125	190 x 550 x 80	4 kg	<5W
PR06-5D	6"	Dot LED	100 meter	Wall mounting	665 x 175	260 x 890 x 80	3 kg	<13W
PR08-5D	8"	Dot LED	125 meter	Wall mounting	745x 205	280 x 955 x 80	6 kg	<18W
PR12-5D	12"	Dot LED	200 meter	Wall mounting	1170 x 310	480 x 1370 x 80	10 kg	<25W
Both Side Display								
PR04DS-5D	4"	FnD	50 meter	Roof Hanging	460 x 125	190 x 550 x 160	8 kg	<10W
PR06DS-5D	6"	Dot LED	100 meter	Roof Hanging	665 x 175	260 x 890 x 160	6 kg	<25W
PR08DS-5D	8"	Dot LED	125 meter	Roof Hanging	745x 205	280 x 955 x 160	12 kg	<35W
PR12DS-5D	12"	Dot LED	200 meter	Roof Hanging	1170 x 310	480 x 1370 x 160	20 kg	<50W

Table 12

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COMPLIANCE CERTIFICATION

