



Programmable Process Indicator





PI990

Pl990 devices are devices that can be configured as fully modular and each module is self-contained, designed to measure many process variables in industrial settings and to transmit the measured values to other units. Compliance with international standards, reliability and ease of use were taken during the design phase. For this reason, they are ergonomic devices that can be used for many different controls in many sectors.

Device Features

1 pcs 4 Digit Numeric Display

1 pcs Transmitter Supply Output (24VDC)

1 pcs Universal Sensor Input (TC, RT, mA, mV, V)

1 pcs Analog Output (0/4-20mA.0/2-10V)

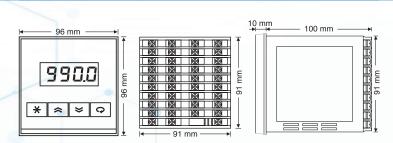
1 pcs RS485 Communication Unit

100-240V AC/DC Universal or 24V AC/DC Supply Voltage Isolation between Input/Output modules

Sensor Error Detection 100ms Sampling Standard MODBUS RTU communication protocol Configuration via Computer

Input Types			
Sensor Type	Standard	Min.	Max.
Type-T (Cu-Const)	IEC60584	-200 °C	300 °C
Type-U (Cu-Const)	IEC60584	-200 °C	600 °C
Type-J (Fe-Const)	IEC60584	-200 °C	800 °C
Type-L (Fe-Const)	IEC60584	-200 °C	900 °C
Type-K (NiCr-Ni)	IEC60584	-200 °C	1200 °C
Type-E (Cr-Const)	IEC60584	-200 °C	1200 °C
Type-N (Nicrosil-Nisil)	IEC60584	0 °C	1200 °C
Type-S (Pt%10Rh-Pt)	IEC60584	0 °C	1500 °C
Type-R (Pt%13Rh-Pt)	IEC60584	0 °C	1600 °C
Type-B (Pt%18Rh-Pt)	IEC60584	0°C	1800 °C
Pt-100	DIN 43760	-200 °C	850 °C
0 / 4-20 mA		0 mA	20 mA
0 / 2-10 VDC		0 VDC	10 VDC

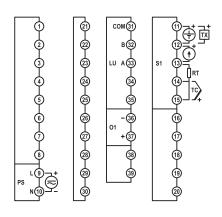
Device Dimensions



Panel Cutting Dimensions = 92 ± 0.5 mm x 92 ± 0.5 mm

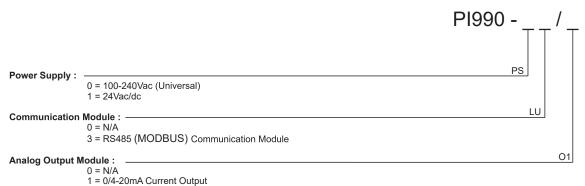
Technical Specifications 100-240 Vac/dc +10%-15% Power Supply (PS) 24 Vac/dc +10%-20% **Power Consumption** 5W. 10VA Thermocouple = B ,E, J, K, L, N, R, S, T, U Two Wired Transmitter = 4-20mA **Universal Sensor Input** Resistance Thermometer = Pt-100 (S1) Current = 0/4-20mA Voltage = 0-50mV, 0/2-10V Transmitter Supply (TX) 24Vdc (Isc= 30mA) Thermocouple, mV = $10M\Omega$ Analog Input Impedance Current = 10Ω Voltage = 1MΩ Analog Output (O1) Current = 0/4-20mA (RL≥500Ω) Voltage = 0/2-10V (ŘL≥1MΩ) 100 Years, 100.000 Renewals Memory +/- 0,2% Accuracy 100 ms Sampling Time Working = -10...+55°C **Environment Temperature** Storage = -20...+65°C **Protection Class** Front Panel = IP54 Trunk = IP20 Width = 96 mm Height = 96 mm **Dimensions** = 110 mm Depth **Panel Cutting Dimensions** 92 +/- 0,5 mm x 92 +/- 0,5 mm Weight 430 gr

Modular Structure and Connection Diagram



Module	Description	
S 1	Universal sensor input module (the sensor used to measure process value should be connected to the terminals with appropriate symbol on this module).	
LU	This module is RS485 communication unit (The content of this module is determined by the product code, function is selected from the configuration page).	
01	Analog output (The content of this module is determined by the product code, function is selected from the configuration page).	
PS	Supply voltage input (Supply voltage is determined by product code).	

Product Code



2 = 0/2-10Vdc Voltage Output