Programmable Process Indicator

PI770

Configuration Via Computer

PI770 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

72 mm
10 mm
100 mm
67 mm
72 mm
67 mm
67 mm

8888
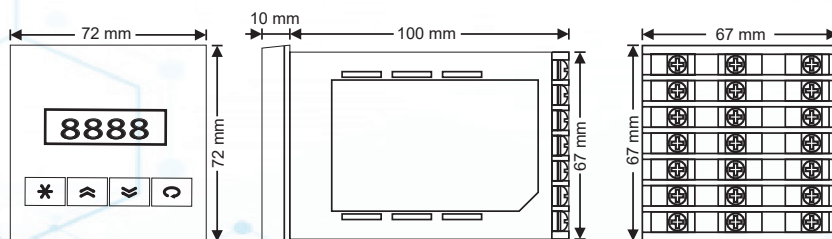
Panel Cutting Dimensions = 68 ± 0,5 mm x 68 ± 0,5 mm

Technical Specifications

Power Supply (PS)	100-240 Vac/dc +10%-15% 24 Vac/dc +10%-20%
Power Consumption	5W, 8VA
Universal Sensor Input (S1)	Thermocouple = B ,E, J, K, L, N, R, S, T, U Two Wired Transmitter = 4-20mA Resistance Thermometer = Pt-100 Current = 0/4-20mA Voltage = 0-50mV, 0/2-10V
Transmitter Supply (TX)	24Vdc (Isc= 30mA)
Analog Input Impedance	Thermocouple, mV = 10MΩ Current = 10Ω Voltage = 1MΩ
Analog Output (O1)	Current = 0/4-20mA (RL≥500Ω) Voltage = 0/2-10V (RL≥1MΩ)
Memory	100 Years, 100.000 Renewals
Accuracy	+/- 0,2%
Sampling Time	100 ms
Environment Temperature	Working = -10...+55°C Storage = -20...+65°C
Protection Class	Front Panel = IP54 Trunk = IP20
Dimensions	Width = 72 mm Height = 72 mm Depth = 110 mm
Panel Cutting Dimensions	68 +/- 0,5 mm x 68 +/- 0,5 mm
Weight	292 gr

Modular Structure and Connection Diagram
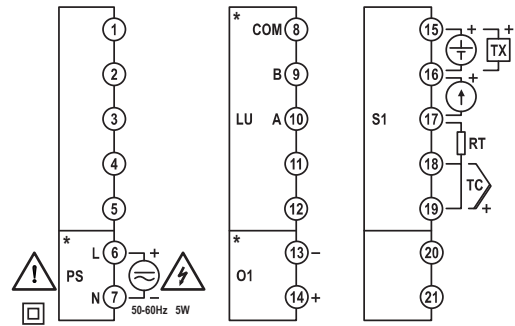
Module	Description
S1	Universal sensor input module (the sensor used to measure process value should be connected to the terminals with appropriate symbol on this module).
LU	This module is RS485 communication unit (The content of this module is determined by the product code, function is selected from the configuration page).
O1	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

PI770 - _ _ / _

PS

Power Supply :
    0 = 100-240Vac (Universal)
    1 = 24Vac/dc

LU

Communication Module :
    0 = N/A
    3 = RS485 (MODBUS) Communication Module

O1

Analog Output Module :
    0 = N/A
    1 = 0/4-20mA Current Output
    2 = 0/2-10Vdc Voltage Output

PROCESS INDICATORS - PI770
Our company, without prior notice, reserves the right to make any changes in the products.

ORDEL