PRECISION PROCESS INDICATOR
PIC352

Creating Best Value



96 x 96mm

Features :

- Dual LCD display with graphical representation
- 24 bit low drift ADC universal input
- Universal input
- 2 x Alarm relay output
- Retransmission analog output
- 24V inbuilt sensor supply
- 4 Digital inputs, IDM applicable
- Red, green, white backlight indication
- 90 to 270V AC / DC Supply voltage

Certifications : CE RoHS compliant

Nomenclature

Series Name		0 : LED display 1 : LCD display			0 : Non communication 1 : Communication		
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		0 : Standard 1 : Precision I/O		Universal Input			1 : 90 to 270V AC / DC supply 2 : 12 to 24V DC supply

Technical Specification

Display Specifications	
Display Dimensions	53x53 mm LCD Display
Display	4 digit numerical for process value, 4 alphabetical for process value information
Graphical representation	Selectable bar graph representation for process value
Annunciator	Red / Orange / White / Green backlight selectable according to conditions
LED Indication	Out 1, Out 2, MAN (Manual) indication
Input Specification	
Thermocouple	J, K, T, R, S, C, E, B, N, L, U, W, Platinal II
RTD	PT100, PT1000
Signal Input	-5 to 90 mV, 0 to 5/10 VDC, 0/4 to 20 mA DC (Programmable Scale Time)
Digital Input	4 DI's
Sampling Time	<60 msec
Resolution (Decimal point position)	24 bit resolution at Analog input 1/0.1 for TC/RTD ; 1/0.1/0.01/0.001 for analog input
Indication Accuracy	For TC Input: 0.1% of full scale at 25°C ; For R & S input: 0.25% of full scale at 25°C ; For RTD: 0.1% of full scale at 25°C ; For Current: 0.1% of full scale at 25°C ; For Voltage: 0.1% of full scale at 25°C

Re-Transmission Output	
Current Output	Range: 0/4-20mA, Action: Retransmission, Update rate: 100ms, Maximum output load resistance: 500E
Voltage Output	Range: 0-5/10V, Action: Retransmission, Update rate: 100msec, Minimum output load resistance: 10k
Resolution	14 bit resolution at Analog output 2uV approx for AOV and 2uA approx for AOI
Alarm Output	
Relay contact output	Relay 1, Relay 2: 10A@250VAC or 28VDC, Life expectancy: 50000 cycles at maximum load rating
Auto/Manual Concept	User can switch from manual analog O/P to retransmission mode by pressing A/M key for 5sec. when in online mode. **NOTE**: User must feed the manual output % in HAND level 3
Alarm modes	Alarm high, Alarm Low, Band, Serr ; Annunciator: Programmable ; Hystersis: Programmable ; Reset Action: programmable-Automatic or latched ; Standby(Hold): Programmable-Enable or disable ; Pdly: Power ON delay ; Rdly Restart time delay
Serial Communication	
Interface standard	RS485 MODBUS RTU Protocol
Communication address	1…99, maximum of 32 units per line
Transmission mode	Half duplex
Transmission protocol	MODBUS RTU
Transmission distance	500m maximum
Transmission speed	115200, 57600, 38400, 19200, 9600, 4800, 2400 bits/sec
Parity	None, Odd, Even
Stop bits	1 or 2
Response time	100ms (max and independent of baud rate)
Environmental Conditions	
Operating range	0.....55°C
Storage range	-20.... 75°C
Storage humidity	85% max. RH (non condensing) from 0 to 50°C
Transmission protocol	MODBUS RTU
Transmission distance	500m maximum
Power Supply	
Power supply	90.... 270V AC / DC
Frequency	50 / 60Hz
Power consumption	8VA max
Environmental Conditions	
Operating range	0.....55°C
Storage range	-20.... 75°C
Storage humidity	85% max. RH (non condensing) from 0 to 50°C
Weight	200 gms
Isolation Breakdown Ratings	
AC line w.r.t. all inputs and outputs	2500Volts
All other inputs and outputs w.r.t. Relay contacts	2500V AC
Safety and EMC Standards	
Compliance	CE
LVD	As per BS EN 61010
EMC	As per BS EN61326
Panel sealing	IP65

Input Sensor Ranges (for 1°C resolution)

Sensor type	Range
J	-200 to 750°C
K	-200 to 1350°C
T	-200 to 400°C
R	0 to 1750°C
S	0 to 1750°C

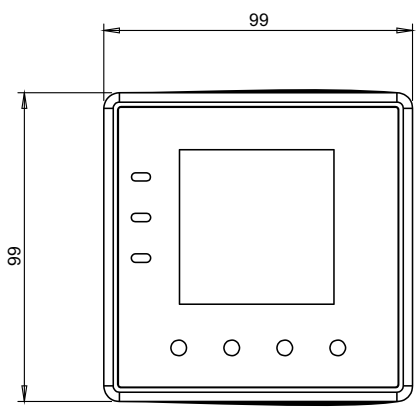
Sensor type	Range
C	0 to 2300°C
Platinel II	0 to 1390°C
PT1000	-200 to 850°C
E	-200 to 750°C
B	-149 to 1820°C

Sensor type	Range
N	-200 to 1300°C
L	-200 to 600°C
U	-200 to 900°C
W	0 to 2300°C
PT100	-200 to 850°C

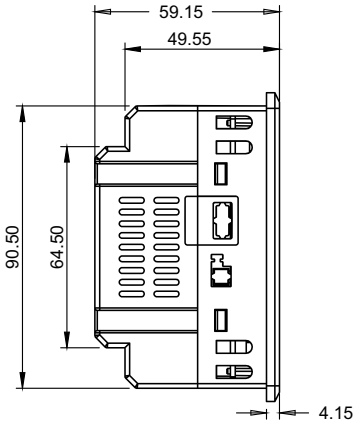
Signal inputs :

Input type	Range
Linear mV	-5 to 90mV
Voltage	0 to 10VDC
Current	0 to 20mV

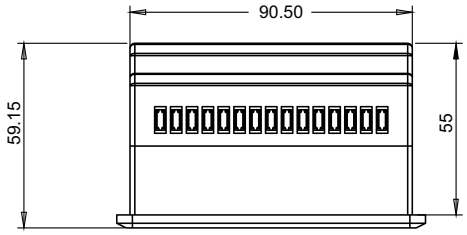
Overall Dimensions (All dimension in mm)



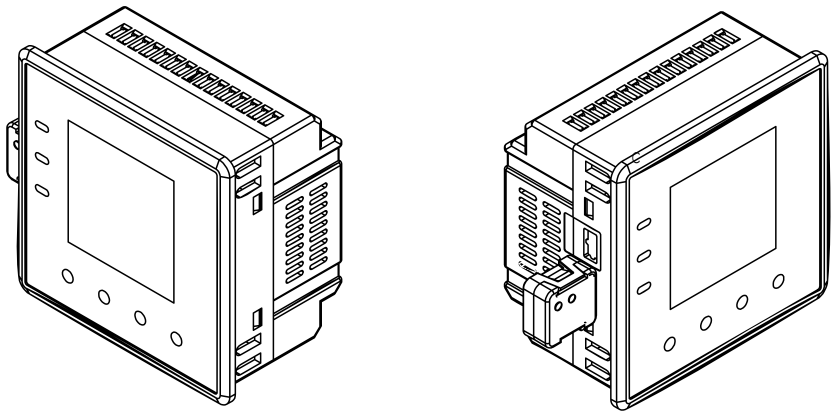
FRONT VIEW



SIDE VIEW



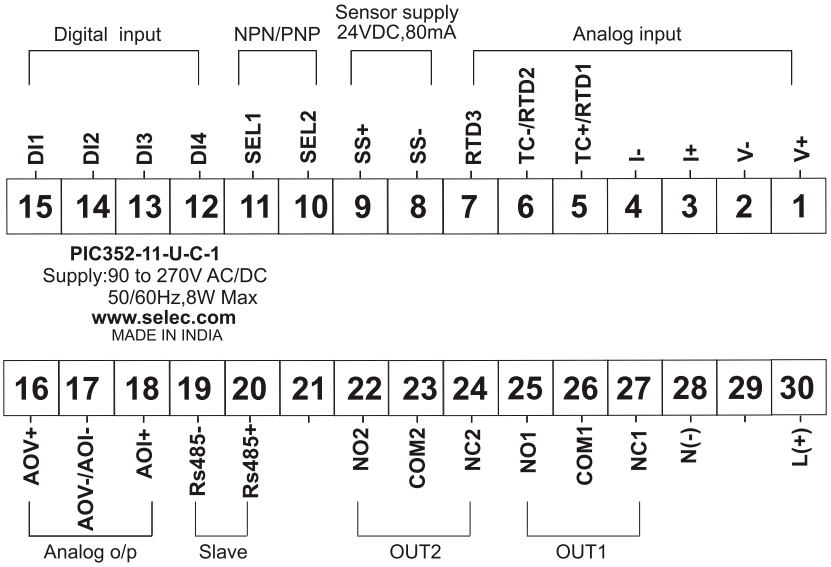
TOP VIEW



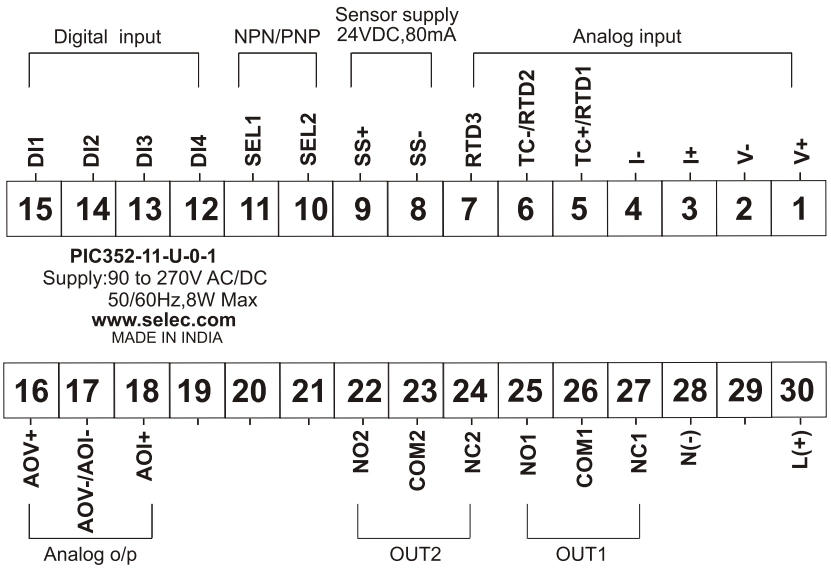
FULL PRODUCT SCHEMATIC

Terminal Connection

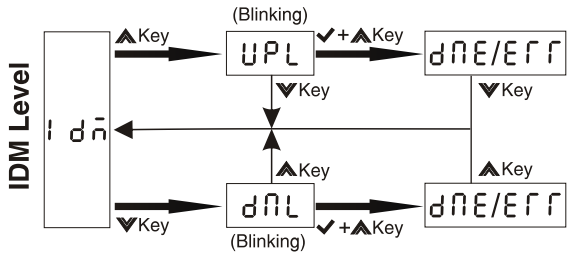
PIC352-11-U-C-1



PIC352-11-U-0-1

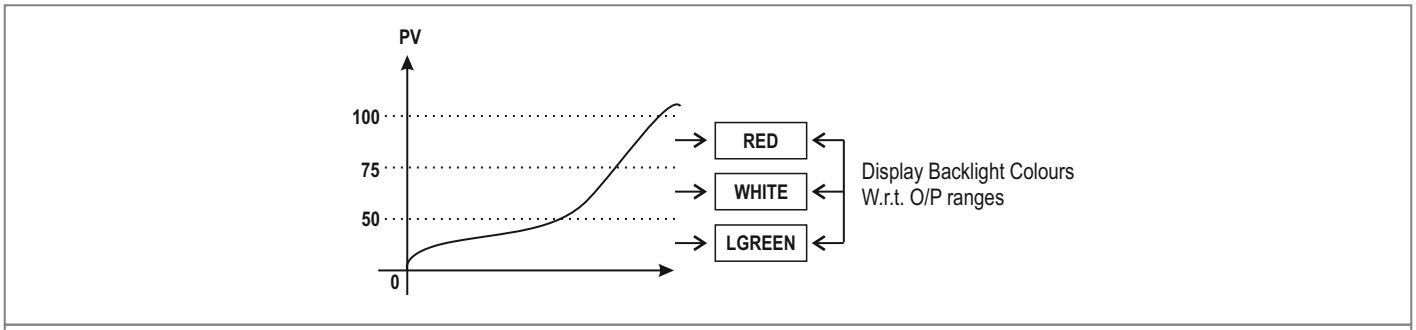


IDM Level



Display	Parameter Description
Idn	Independent Downloader Module
UPL	Upload from product to IDM
dNL	Download from IDm to product
dNE	Operation successful
ErR	Operation unsuccessful

Alarm Display with Active Backlight





Ordering Information

Product Code	Input	Sensor supply	Supply voltage	Communication	Certification
PIC352-11-U-C-1	Universal	24V DC	90 to 270V AC / DC	RS485 MODBUS	CE RoHS compliant
PIC352-11-U-0-1	Universal	24V DC	90 to 270V AC / DC	- - -	CE RoHS compliant

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