(96*96, 0.5" display)

(96*48, 0.5" display)

(96*48, 0.8" display)

(72*72, 0.5" display)

(72*72, with set point display)

(48*48, predefined input)
Yellow in spec803
(Din rail type)

(din rail type)

MODEL 802 – MICROPROCESSOR BASED SIGNAL INDICATORS / CONTROLLERS (Fully configurable)

Technical Catalogue

Introduction

Pantech's Programmable Microprocessor based Indicator cum Controller, model 802 is an ideal instrument for providing indication as well as controlling set points to various processes. It is designed to accept various process inputs (Current, Voltage, RTD, Thermocouples, Resistances) simultaneously i.e in UNIVERSAL manner or any one of these in PREDEFINED manner. When UNIVERSAL manner, The user can configure from the front keys to select any one of the input automatically. The user can also configure to set the range of linear inputs or calibrate the instrument without openint it. The model 802 can give maximum 4 relay outputs. All the contact output related specs like – SETPOINT, ALARM TYPE, HYSTERISIS – can be configured easily by the front panel keys itself. Retransmission facility is of course provided with all possible configurations allowed by front keys as usual. The instrument can be optionally equipped with serial communication facility to operate on MODBUS RTU protocols. Signle level password is there to keep the settings and configurations intact for the right user only.

Low drift precession components are used for long term accuracy of the instruments. All instruments undergo a burn-in for better reliability.The instrument is available in different formats and sizes. Information regarding specification and size is given below.

Specifications

Inputs (& Display range)
1)Current, 4 – 20 mA DC/ 0 – 20 mA DC (-1999 to 9999)
2)Voltage, 1 – 5V/0 – 10V (-1999 to 9999)
3)RTD Pt 100 – 3 wire (-100.0 to 600.0)
4)T/C Type J (-100 – 800)
5)T/C Type K (0 – 1200)
6)T/C Type R (0 – 1760)
7)T/C Type S (0 – 1700)
8)T/C Type T (-100 – 400)
9)T/C Type B (450 to 1820)
10)T/C Type E (-100 to 1000)
11)T/C Type C
12)Ohms-0-10K ohms (-1999 to 9999)
13)mV DC

14)UNIVERSAL type 1 – 1…8 of above

15)UNIVERSAL type 2 – 1…13 of above
16)Pulse train input. (open collector type)–
17)10 to 10 V DC / -mV to mV DC (-1999to9999)
18)RTD – Cu 53
19)Special type of inputs of any V/Current/Resistance
(However on factory confirmation only)
 Decimal point configurable for linear inputs
 T/C temperature displays without decimal point

Input impedance
200 K for Voltage, mV & T/C inputs
upto 250 ohms for current inputs

Display resolution
3 digit
4 digit
* Display range is the virtue of its resolution

Display accuracy
+/- 0.1% of span

Alarms
Maximum 4 nos. of potential free contacts

Setpoint Display
Optional on a resolution of 3 or 4 digit

Analog output
Maximum 2 nos. of any of below
1)Isolated / Non Isolated 4 – 20 mA DC
2)Isolated / Non Isolated 0-10 V DC
3)Other types on factory confirmations

Analog output load capability
800 maximum for current outputs

Output accuracy
+/- 0.1% of span

Serial output with open protocol
1)RS232 With modbus RTU protocol
2)RS485 with modbus RTU protocol
Note: Any other protocol on demand

Transmitter power
24 V DC for current inputs
10/12 V DC (in case of Load cell/Proximity application)
Specials

Power supply
1)24 V DC
2)110 V AC, 50 Hz, +/- 10%
3)230 V AC, 50 Hz, +/- 10%
4)90-270 V AC, 50 Hz. – SMPS
5)Specials

Security
Single level Password protected

Contact ratings
230 V AC, 5 Amps.

Power consumption
3 VA max.

Ambient temperature
0 – 50 C.

Storage temperature
0 – 70 C.

Humidity
90% RH (non-condensing)

Enclosures
Weatherproof, Flameproof and all other standard types

Mounting
Panel / Wall / Field / Dinrail / Eurocard / Specials

Dimensions
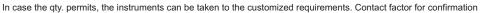96*96 / 96*48 / 72*72 / 48 * 48 / 72*144 / **SPECIALS**

*All config/calibration from front keys only

·Following table describes the availability of several models with the company right now. A general preview is only presented to the user. The dimensional and display sizes are the relational virtues of each other and hence the user is always requested to clarify the specifications of instrument with the factory prior to placement of the order.
On confirmation with factory, changes of all types in all specifications is possible.

(din rail type)

Model	Mounting & Dimension in mm (H * W)		Inputs	Power	Bargraph	Alarms	Retrans-mission Isolated or Not-Isolated	Setpoint Display	Process value Display resolution	Process value Display size "
802	Panel	48*96	All	All	No	Max.2	Max. 1	No	3/4 digit max.	0.25/0.5/0.8"
		72*72	All	All	No	Max.2	Max. 1	Yes	3/4 digit max.	0.25/0.5"
		96*96	All	All	Yes	Max.4	Max. 2	Yes	3/4 digit max..	0.25/0.5/1"
		144*72	All	All	51 LED	Max.4	Max. 2	Yes	3/4 digit max.	0.25/0.5/1"
		72*144	All	All	51 LED	Max.4	Max. 2	Yes	3/4 digit max.	0.25/0.5/1"
		36*144	All	SMPS	51 LED	Max. 4	Max. 1	No	3/4 digit max.	0.25"
	Din Rail	70*100 max	All	All	No	Max. 4	Max.1	No	3/4 digit max.	0.25/0.5"
	Euro	Std. or as req	All	All	No	Max. 4	Max. 2	No	3/4 digit max.	0.25/0.5"
	Wall	As required or Optimum possible	All	All	Depends on size	Max. 4	Max.2	Yes	3/4 digit max.	0.25" to 1"

In case the qty. permits, the instruments can be taken to the customized requirements. Contact factor for confirmation

(Euro Card format)

Ordering Information (12 digits)
Please confirm the availability of the model by cross checking the table mentioned on the backside.

Basic Model No. (Specified by first 3 digits)802 -
Signal Ind. cumController Microprocessor based and
Fully configurable

Enclosure / Mounting (Specified by letter following 3 digits)
P-Weatherproof - Panel
R-Weatherproof -Din Rail
E-Weatherproof - Euro card
W-Weatherproof - Wall
F-Flame proof – Wall / Field
I-IP65 grades – Wall / Field
S-Specials

Input (Specified by first digit following the letter)
1-mA DC signal input
2-V/mV DC signal input
3-RTD type
4-Thermocouple
5-Resistances
U-UNIVERSAL1 type
V-UNIVERSAL2 type
S-Specials / Others

Power Option (Specified by the second digit)
1-24 V DC
2-110 V AC
3-230 V AC
4-90-270 V AC – SMPS
S-Specials

Alarms Option (Specified by the third digit)
0-None
1-1 no. of alarm
2-2 no. of alarms
3-3 no. of alarms
4-4 no. of alarms

Analog O/P Option (Specified by the fourth digit)
0-None
1-1 no. mA/V DC isolated
2-2 no. mA/V DC isolated
3-1 no. mA/V DC N. I.
4-2 no. mA/V DC N.I
S-Any other type of outptus

Bargraph Option (Specified by the fifth digit)
0-None
1-YES

Display Resolution (Specified by the sixth digit)
1-2/3 digit
2-4 digit

Communication output
0-None
1-YES

Setpoint Display
0-None
1-YES

(FLP enclosure)

(Edge cut, Single Bargraph type)

(Single channel Bargraph Ind./Ct.)

PANTECH INSTRUMENTS

(FLP enclosure)