(96*48 type)

(96*96 type)

(96*96 type)
7680 (GROUP)

MODEL 805 – MICROPROCESSOR BASED SIGNAL INDICATORS / CONTROLLERS (High Precision 5 digit and Fully configurable)

Technical Catalogue

Introduction

Pantech's Programmable Microprocessor based Indicator cum Controller, model 805 is an ideal instrument for providing indication as well as controlling set points to various processes. This model specially indicates the process value to the resolution of maximum 5 digits i.e high precisions. 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 only 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 805 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. Single 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– 0 mA DC/ 0–20 mA DC (-19999 to 59999)
2)Voltage, 1–5V/0–10V (-19999 to 59999)
3)RTD Pt 100 – 3 wire (-100.0 to 600.0)
4)T/C Type J (-100.0 – 800.0)
5)T/C Type K (0 – 1200.0)
6)T/C Type R (0 – 1760.0)
7)T/C Type S (0 – 1700.0)
8)T/C Type T (-100.0 – 400.0)
9)T/C Type B (450.0 to 1800.0)
10)T/C Type E (-100.0 to 1000.0)
11)Ohms-0-1K ohms (-19999 to 59999)
12)mV DC

13)UNIVERSAL 1 – Containing 1…8

14)UNIVERSAL 2 – Containing 1…12
15)Pulse train input. (Pulse of 12 V DC)–
16)10 to 10 V DC / -mV to mV DC (-19999to59999)
17)RTD – Cu 53
18)Special type of inputs of any V/Current/Resistance (However on factory confirmation only)
Decimal point configurable

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

Display resolution
5 digits

Display accuracy
+/- 0.1% of span

Alarms
Maximum 4 nos. of potential free contacts.xxxxxxxxxxx

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
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
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 on factory confirmations

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

Dimensions
96*96 / 96*48 / 72*72 / **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.

Model	Mounting & Dimension in mm (H * W)		Inputs	Power		Alarms	Retrans-mission Isolated or Not-Isolated		Process value Display resolution	Process value Display size "
805	Panel	48*96	All	All		Max.2	Max. 1		5 digit	0.25"
		72*72	All	All		Max.2	Max. 1		5	0.25/0.5"
		96*96	All	All		Max.4	Max. 2		5	0.25/0.5"
		144*72	All	All		Max.4	Max. 2		5	0.25/0.5/1"
		72*144	All	All		Max.4	Max. 2		5	0.25/0.5/1"
									5	
	Din Rail	70*100 max	All	All		Max. 4	Max. 2		5	0.25/0.5"
	Euro	Std. or as req	All	All		Max. 4	Max. 2		5	0.25/0.5"
	Wall	As required or Optimum possible	All	All		Max. 4	Yes		5	0.25" to 6"

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

Ordering Information (12 digits)

Basic Model No. (Specified by first 3 digits)
805 -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 DC signal input
3-RTD type
4-Thermocouple
5-Resistances
U-UNIVERSAL1
V-UNIVERSAL2
S-SPECIALS

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

Communication output
0-None
1-YES

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