



MODEL 803 – MICROPROCESSOR BASED SIGNAL INDICATORS / CONTROLLERS (JUMBO and fully configurable)

Technical Catalogue

Introduction

Pantech's Programmable Microprocessor based Indicator cum Controller, model 803 is an ideal instrument for providing indication as well as controlling set points to various processes in JUMBO SIZE DISPLAYS. 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 opening it. The model 803 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 precision 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 (-1999 to 9999)
- 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 SIZE

1" to 16"

Display accuracy

+/- 0.1% of span

Alarms

Maximum 4 nos. of potential free contacts.

Analog output

- Maximum 2 nos. of any of below
- 1) Isolated / Non Isolated 4 – 20 mA DC
- 1) Isolated / Non Isolated 0-10 V DC
- 2) 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 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

Mouting

Panel / Wall / Field

Dimensions

optimum



(4" Display size, Wall mount)



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

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)803 -Signal Ind. cumController
Microprocessor based and
Fully configurable

Enclosure / Mounting (Specified by letter following 3 digits)

P-Weatherproof - Panel
W-Weatherproof - Wall
F-Flame proof – Wall / Field
I-IP65 grades – Wall / Field

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

Display Resolution (Specified by the sixth digit)

1-2/3 digit
2-4 digit
Display size in INCH
X-X " (rounded)

Communication output

0-None
1-YES



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