



MODEL 807 – DUAL Channel Indicator/Controller

Technical Catalogue

Introduction

Pantech's Programmable Microprocessor based Dual channel Indicator cum Controller, model 807 is an ideal instrument for providing indication as well as controlling set points. On each of the channel, 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 and that too on each of the channel. The user can also configure to set the display ranges for each of the channel or calibrate the instrument without opening it. The model 807 can give maximum 2 relay outputs per channel. All the contact output related specs like – SETPOINT, ALARM TYPE, HYSTERESIS – can be configured easily by the front panel keys itself. Each of the channel can give a retransmission output signal which can be isolated or non isolated. 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.



(96*96, Dual channel PV)

Specifications

FOR EACH OF THE CHANNEL

Inputs (& Display range)

- 1)Current, 4 – 20 mA DC/ 0 – 20 mA DC (-1999 to 9999)
 - 2)Voltage, 1 – 5V/0 – 10V / mV DC / -10 – 10VDC / -75 – 75 mV DC(-1999 - 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)Ohms-0-10K ohms (-1999 to 9999)
 - 12)mV DC
 - 13)UNIVERSAL type 1 – 1...8 of above
 - 14)UNIVERSAL type 2 – 1...12 of above
 - 15)Pulse train input. (open collector type) –
 - 16)10 to 10 V DC / -mV to mV DC (-1999to9999)
 - 17)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 (-199 to 999) per channel
4 digit (-1999 to 9999) per channel

Display accuracy

+/- 0.1% of span

Alarms

Maximum 2 nos. of potential free contacts.per channel

Analog output per channel

- 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 per channel

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 / Specials

Dimensions

96*96 / 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





PANTECH INSTRUMENTS

Model	Mounting & Dimension in mm (H * W * D)	Inputs	Power	Alarms per channel	Analog output		Display resolution per channel.	Display size	
					Isolated	Non isolated			
807D (Dual)	Panel	96*96*150	All	All	Max. 2	Yes	Yes	4 digit	½" size
		144*72*150	All	All	Max.2	Yes	Yes	4 digit	½" size

Ordering Information :

Please confirm the availability of the model by cross checking the table mentioned on the backside.

Basic Model No. (Specified by first 3 digits)
807-Dual channel

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

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

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

Analog O/P Option (Specified by the fourth digit)
0-None
1-mA/V DC isolated per chn.
2-mA/V DC non-isolated per ch
S-Any other type of outptus

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

Communication output
0-None
1-YES

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



7678 (GROUP)



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