

### MODEL 807 - DUAL Channel Indicator/Controller

## Technical Catalogue

#### Introduction

(96\*96, Dual channel PV)



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 openint it. The model 807 can give maximum 2 relay outputs per channel. All the contact output related specs like – SETPOINT, ALARM TYPE, HYSTERISIS– 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 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

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 type 1 - 1...8 of above type 2 - 1...12 of above 13)UNIVERSAL 14)UNIVERSAL 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

#### <u>Alarms</u>

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

<u>Transmitter power per channel</u> 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.

<u>Ambient temperature</u> 0 - 50 C.

<u>Storage temperature</u> 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

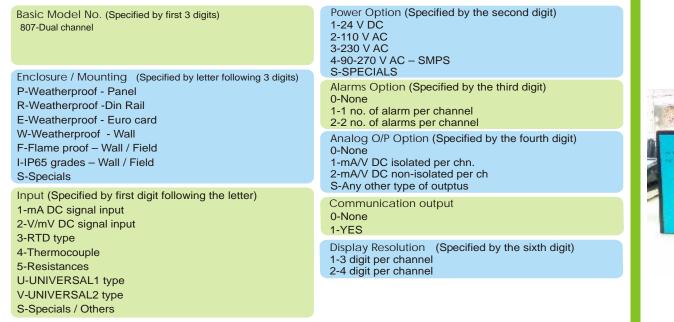
Following table describes the availability of several models with the company right now. A general preview is only presented to the user. The dimensional and display sizes are the relational virtues of each other and hence the user is always requested to clarify the specifications of instrument with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



Model	Mounting & Dimension in mm (H * W * D)		Inputs	Power	Alarms per channel	Analog output		Display resolution per channel.	Display
						Isolated	Non isolated		size
807D (Dual)		96*96*150	All	All	Max. 2	Yes	Yes	4 digit	1⁄2" size
	Panel								
		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.





# PANTECH INSTRUMENTS

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