DIGITAL INDICATOR

MODEL: DC9696-P / DC4896-P

FEATURES

- Microcontroller based
- Universal or fixed input
- Programmable range
- Simple 4 key user control
- High accuracy
- 95 265V AC universal power supply
- User friendly installation and operation
- Operation & Calibration through keyboard on front panel





Alpha Make DC9696-P/ DC4896-P is an advanced Microcontroller based indicating on/off controller used in majority of industrial processes. The indicating controller can accept analog inputs from RTDs, Thermocouples, current and voltage input with provision of single or dual output. The controller is calibrated for all the basic inputs and the calibration is not required to be changed if the input type is changed. However if recalibration is required due to any error then calibration can be done through keyboard.

INPUT TABLE:

INPUTS		TYPE	RANGE	CODE
Univ <mark>ersal</mark>		Programmable	As pe <mark>r input selected</mark>	0
Fixed	Thermocouple	J	0 t <mark>o 700 Deg. C</mark>	1
		K	0 to 1200 Deg. C	2
		R	-50 t <mark>o 1765 Deg. C</mark>	3
		S	0 to 1766 Deg. C	4
		Т	-100 to 400 Deg. C	5
		Е	-100 to 1000 Deg. C	6
		В	250 to 1820 Deg. C	7
		N	0 to 1800 Deg. C	8
	RTD	PT100	0 to 200.0 Deg.C	9
		PT100	0 to 600 Deg.C	Α
	Linear (V/mA)	0 – 5 V / 0 – 20 mA	-1999 to +9999 Field programmable	В
		1 – 5 V / 4 – 20 mA		С

SPECIFICATIONS:	
No. of channels	:1
Input	: Universal or Fixed inputs (Refer Table)
Input Connection	: Rugged Screw type terminal, suitable for wire size ranging from 0.2-2.5sq.mm
Input Impedance	: For Thermocouples & mV inputs: >1 M Ω DC Volts: >100 K Ω
Display	: - 4 digit 7seg. Red LED -Range –1999 to 9999
Square root extraction	: Provided built-in for linear inputs
Automatic Compensations	: -Cold junction compensation for thermocouples -Wire resistance compensation for three wire RTDs.
Accuracy	: +/- 0.1% of FS, +/- 1 digit for Linear inputs +/- 0.2% of FS, +/- 1 digit for others
Decimal Point	: Programmable as 88 <mark>88, 88</mark> 8.8, 88.88, 8.888 for Linear Inputs
Noise Rejection	: -Common Mode 12 <mark>0dB or b</mark> etter -Series Mode 60dB <mark>or</mark> bett <mark>er</mark>
Battery Backup	: EEPROM Nonvola <mark>tile</mark> Mem <mark>ory</mark> (Battery not required)
Power supply	: 90 - 265V AC +/-1 <mark>0%</mark> , 50 Hz, 1 Ph
Open Sensor Indication	: 'OPEN' or 'OR' <mark>whe</mark> re applicab <mark>le.</mark>

OUTPUT OPTIONS

1. Output : 1. Up to 2 relay outputs, 5A / 230 V AC resistive max.

2. Retransmission Output : 2. Isolated 4 – 20 mA 3. Transmitter Excitation Voltage : 3. 24V DC/30 mA max.

(Note: Retransmission option is non isolated if excitation voltages are used)

PROTECTION

Sensor Burn out Protection : Programmable alarm ON or OFF

Set Point & Configuration Protection : Password Protected – User & configuration menu : Through hardware and software watch dog

ENVIRONMENT

Operating Temperature : 0 to +55 Deg. C

Operating Humidity : Up to 95% non condensing

Storage Temperature : -10 to +70 Deg. C

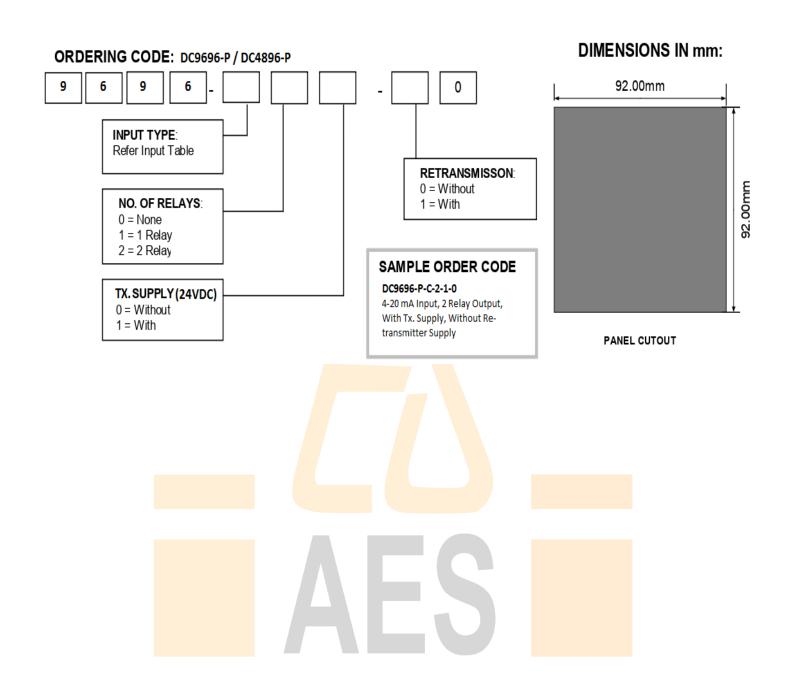
ENCLOSURE

Enclosure : Flame Retardant ABS IP Rating : IP54 (Front panel) Mounting Type : Flush on panel

External Dimension : 96(H) x96 (W) x125 (D) mm

Panel Cutout : 92(H) x92 (W) mm, Depth behind panel: 125mm including terminals

EXTERNAL DIMENSIONS (mm):





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