

FEATURES

- ❑ Universal or fixed input
- ❑ Simple 4 key user control
- ❑ Operation & Calibration through keyboard on front panel
- ❑ 95 – 265V AC universal power supply
- ❑ User friendly installation and operation



DC4010 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.

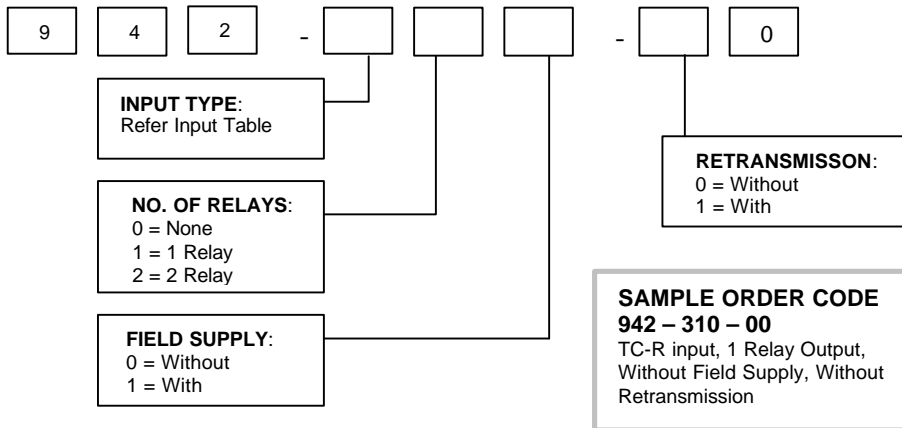
INPUT TABLE:

INPUTS		TYPE	RANGE	CODE
Universal		Programmable	As per input selected	0
Fixed	Thermocouple	J	0 to 700 Deg. C	1
		K	0 to 1200 Deg. C	2
		R	-50 to 1765 Deg. C	3
		S	0 to 1766 Deg. C	4
		T	-100 to 400 Deg. C	5
		E	-100 to 1000 Deg. C	6
		B	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	A
	Linear (V / mA)	0 – 5 V / 0 – 20 mA	} -1999 to +9999 Field programmable	B
1 – 5 V / 4 – 20 mA		C		

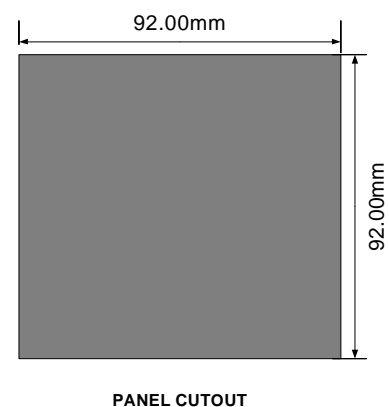
SPECIFICATIONS:

No. of channels	1
Inputs	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 MΩ DC Volts: >100 KΩ
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 8888, 888.8, 88.88, 8.888 for Linear Inputs
Noise Rejection	-Common Mode 120dB or better -Series Mode 60dB or better
OUTPUT OPTIONS:	
1. Output	1. Up to 2 relay outputs, 5A / 230 V AC resistive max.
2. Retransmission Output	2. Isolated 4 – 20mA
3. Transmitter Excitation Voltage	3. 24V DC/30mA max.
	(Note: Retransmission option is non isolated if excitation voltages are used)
Battery Backup	EEPROM Nonvolatile Memory (Battery not required)
Power Supply	Universal 95 – 265V AC, 50Hz or 110 – 300 V DC
Open Sensor Indication	'OPEN' or 'OR' where applicable.
PROTECTION	
Sensor Burn out Protection:	Programmable alarm ON or OFF
Set Point & Configuration Protection:	Password Protected – User & configuration menu
System Protection:	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

ORDERING CODE:



DIMENSIONS IN mm:



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As product development is a continuous process, information in this catalog is subject to change without notice.

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