CONTROL DE TEMPERATURA HONEYWELL

DC1010-10100-E

Features

- **Dual Display**

  Two 4-digit displays with 7 LED segment, each configurable for PV and SP

- **Easy to Configure**

  The user can define the indication of configuration steps for easy access to parameters.

- **Input & Output**

  Accepts 12 types of TC inputs, 3 types of RTD inputs, 5 types of linear inputs (optional)

  Supports relay, voltage pulse, linear and others as an output for various control application

- **Automatic/Manual Operation**

  Manual control is enabled by pressing the A/M key. "MAN" LED flashes and the output value(%) is displayed on the lower display with output percentage indicated proportionately by 10 LEDs.

- **Various Extra Output Function (*apart from main output)**

  Duplex Output Mode (Heat/Cool) through 2 control processes

  Auxiliary Output – PV, SP and MV retransmission

  Alarm – Up to 3 alarm set (1/4 DIN), 17 alarm modes available

- **Program**

  Programmable models have 2 available inter-link patterns, each with 8 segments

- **Highly Secure and Reliable**

  A non-volatile memory based on EEPROM ensures data integrity during loss of power supply

- **Universal Power Supply**

  Operates on any line voltage from 85Vac to 265Vac at 50/60Hz

- **Communication**

  Optional RS-232 and RS-485 communication interface available

INPUT ACTUATIONS		
TC	K	0.0~200.0, 400.0, 600.0, 800.0, 1000, 1200 °C
	J	0.0~200.0, 400.0, 600.0, 800.0, 1000, 1200 °C
	R	0.0~1600, 1769 °C
	S	0.0~1600, 1769 °C
	B	0.0~1820 °C
	E	0.0~800, 1000 °C
	N	0.0~1200,1300 °C
	T	-199.9~400.0, 200.0 °C, 0.0~350.0 °C
	W	0.0~2000, 2320 °C
	PL II	0.0~1300, 1390 °C
	U	-199.9~600.0, 200.0 °C, 0.0~400.0 °C
	L	0.0~400.0, 800.0 °C
RTD	Pt100	-199.9~600.0, 400.0, 200.0 °C, 0.0~200.0, 400.0, 600.0 °C
	JPt100	-199.9~600.0, 400.0, 200.0 °C, 0.0~200.0, 400.0, 600.0 °C
	JPt50	-199.9~600.0, 400.0, 200.0 °C , 0.0~200.0, 400.0, 600.0 °C
Linear	AN1	-10~10mV
	AN2	0~10mV
	AN3	0~20mV
	AN4	0~50mV
	AN5	10~50mV

SPECIFICATIONS

TECHNICAL DATA		
PV Input	Type of Input	TC (K, J, R, S, B, E, N, T, W, PL II, U, L) RTD (Pt100Ω, JPt100Ω, JPt50Ω) Linear (-10~10mV, 0~10mV, 0~20mV, 0~50mV, 10~50mV)
	Input Sampling Time	500 ms
	Input Resolution	14 bit (each)
Indication	PV/SP Indication	4-digit , 7 segment display
	Constant Value Storage System	Non-volatile memory (E^2PROM)
	Indication Accuracy	± 0.5%FS
Control Mode	Proportional Band (P)	0~200% (On/Off action at P=0)
	Integral Time (I)	0~3600 sec (PD action at I=0)
	Derivative Time (D)	0~900 sec (PI action at D=0)
	Cycle Time	0~150 sec (4~20mA→ 0, SSR→1, relay→10)
	Dead Band Time	0~1000 sec (dead time compensation)
Output	Relay Output	Contact, SPDT, 3A/240VAC
	Voltage Output	Voltage Pulse, 20VDC/20mA
	Linear Output	4~20mA, 0~5V, 0~10V, 1~5V, 2~10V
	Motor Control Output	Servo motor valve control (open loop circuit)
	Others	1φ SSR, 3φ SSR, 1φ SCR, 3φ SCR
Alarm	Channel	3 channels (optional)
	Mode	17 alarm mode available
	Timer	Flicker alarm, continued alarm, on delay timer alarm
Aux. Output	Output Signal	SP, PV, MV
	Type of Output	4~20mA, 0~20mA, 0~5V, 0~10V, 1~5V, 2~10V
2nd Input (RSP)	Type of Input	4~20mA, 0~20mA, 0~5V, 0~10V, 1~5V, 2~10V
	Sampling Time	250 m
Program	Pattern/Segment	2 pattern/ 8 segment (each)
	Availability	Pattern link & repeat, program/segment end alarm
Communication	Type of Communication	RS-232, RS-485
General Specifications	Rated Power Supply Voltage & Frequency	AC 85~265V, 50/60Hz
	Power Consumption	4VA
	Ambient Temperature	-25°C~65°C
	Ambient Humidity	50~85% RH (no condensation)