01 Dec 2018 30-10-10-18-EN Rev4 Page 1 of 14

DC1010/DC1020/DC1030/DC1040/DC1050/DC1060 DIGITAL CONTROLLERS Specification

Overview

The DC1000 Series are microprocessor-based controllers designed with a high degree of functionality and reliability at a competitive price. The controllers are available in different formats: 48x48 (1/16 DIN), 48x96 (1/8 DIN), 72x72 (3/16 DIN), 96x96 (1/4 DIN). This controller series is ideal for the control of temperature, humidity, pressure, flow etc. in a variety of applications including:

- Plastic Processing
- Package Machinery
- · Painting and coating
- Semiconductor packaging / Testing
- Dryers

Features

• Easy to Configure

Different configuration levels provide easy access to parameters.

• High Accuracy and sampling time

High accuracy of 0.1% FS and up to 50msec sampling time for main input(INP1) with TC, RTD and Linear signal.

• Various Control Algorithm

Several different algorithms are available as follows:

- PID or ON/OFF Control
- Heat/Cool Control with 2 PID sets
- Motor Position Control (without slidewire feedback)

• Auto-Tuning Capability

Advanced auto-tuning function calculates the optimized PID values for your specific control system.



• Dual Display and Bar graph

Two large 4 digits display PV, SP and configuration parameters.

One 10 LED bar-graph displays the control output (MV).

• Displays for status

Up to 8 LEDs display the status of the different outputs (Control, Alarm, ...) displays on front face and also provide indication of the A/M(Auto/Manual) and programmer status.

• Setpoint Programming

Two programs are available with a maximum of 8 segments. Max 18 programs can be linked and configured totally 144 segment program.

• Extended Alarm Capability

Up to three different alarm outputs are available per instrument and 17(19) kinds of event modes can be assigned to each of alarm output.

Communications

RS232C, RS485 (with ASCII & Modbus RTU Protocol) are optionally available with a maximum communication speed of 115200 bps.

• IP65 Front Face Protection

IP65 rated front face permits use in applications where it may be subjected to moisture, dust conditions. (it's available with DC1014, DC1024, DC1034, DC1044 / DC1015, DC1025, DC1035 DC1045.)

• Remote Setpoint Capability

The setpoint can be defined from a remote PLC or other controller. TTL option

Manual & Automatic Modes

The control mode can be switched between Automatic and manual by clicking A/M key. (The A/M key is available with DC1020, DC1030 and DC1040)

• Global Approvals - CE & cUL

All models are CE certified as a standard, and UL approved version for all models are available optionally.

Parameter Lock

A 4-digit security code prevents any unauthorized changes of parameters or configurations. Parameters can be hidden to user to prevent any mis-configuration of the unit.

Specifications										
General										
Rated power su	upply voltage	100 to 240V AC 50)/60Hz, 8VA max.							
		24 to 38V DC, 10VA max.								
Insulation Resisto	ance	Over $10 \mathrm{M}\Omega$ under DC500V megger between input terminal and								
		case(ground).	case(ground).							
		Over $10\mbox{M}\mbox{\Omega}$ under DC500V megger between output terminal and								
		case(ground).								
Withstand volto	ige	1000V AC 50/60Hz	z for 1 min across inp	out terminal and ca	se(ground)					
		1500V AC 50/60Hz	z for 1 min across ou	tput terminal and c	case(ground)					
Operating	Ambient Temp.	0 to 50°C								
Conditions	Ambient Humi.	20 to 90%RH (non-a	condensing)							
	Rated Power Supply	100 to 240V AC								
		20 to 50V DC								
	Allowable Power	85 to 264V AC								
	Supply	15 to 55VDC								
	Power Frequency	50 ± 2Hz or 60 ± 2Hz								
	Vibration Resistance	10m/s² (approx. 10	G), 10 to 55Hz for 10n	nin each X, Y, Z direc	ctions					
Transportation	Ambient Temp.	-25 to +65 °C								
and storage	Ambient Humi.	10 to +95% RH (nor	n-condensing)							
conditions	Vibration Resistance	20m/s ² (Approx. 20	G), 10 to 55Hz for 2 h	ours each in X, Y, Z d	lirections					
Exterior		Double insulation,	Case and front pane	el : plastic						
Indication	PV/SP indication	4-digit, 7-segment	display							
Indication	Const value storage	Non-volatile memo	ory(EEPROM)							
Mounting		Panel-mount								
	Model	DC1010	DC1020	DC1030	DC1040					
Exterior Size (unit	$\frac{mm}{inch}$	50 X 50 X 97	50 X 96 X 97	74 X 74 X 97	96 X 96 X 97					
2.1.01.01.01.20 (0.1.1.1	inch '	(1.97X1.97X 3.82)	(1.97X3.78X3.82)	(2.91X2.91X3.82)	(3.78X3.78X3.82)					
:WXHXD		(/ (/ (0.02)	(1.7770.7070.02)	(2.7 17/2.7 17/0.02)	(3.7 3.73.7 3.70.02)					
Panel Cutout (u	nit:	44.5 X 44.5	44.5 X 90.5	68.5 X 68.5	90.5 X 90.5					
(-	inch '	(1.75 X 1.75)	(1.75 X 3.56)	(2.97 X 2.97)	(3.56 X 3.56)					
:WXH			,	,						
Global Approvo	als	CE, cUL								

Interval = 20.5mm (0.807 in)

DC1050/60

DIGITAL CONTROLLERS

Overview

The DC1000 Series are microprocessor-based controllers designed with a high degree of functionality and reliability at a competitive price. Here, DC1050 and DC1060, DC1070 are compact size and installed on DIN rail. This controller series is ideal for the control of temperature, humidity, pressure, flow etc. in a variety of applications including:

- Plastic Processing
- Package Machinery
- · Painting and coating
- Semiconductor packaging / Testing
- Dryers

Features

· Compact size and Easy to install

Short-body and compact size, installed on DIN rail easily.

• Various Control Algorithm

Several different algorithms are available as follows:

- PID or ON/OFF Control
- Heat/Cool Control with 2 PID sets
- Motor Position Control
 (without slidewire feedback)

• Auto-Tuning Capability

Advanced auto-tuning function calculates the optimized PID values for your specific control system.



• Two types of model

Advanced and Economic models. dual 4 digits display PV, SP and configuration parameters. Up to 5 LEDs display the status of the different outputs (Control, Alarm, ...). Economic model provides to configure parameters.

• Setpoint Programming

Two programs are available with a maximum of 8 segments. The 2 programs can be linked together and perform as a single 16 segment program.

• Extended Alarm Capability

Up to three different alarm outputs are available per instrument and 17 kinds of event modes can be assigned to each of alarm output.(DC1050: upto two alarms) Heater breaker alarm is available through CT input.

Communications

RS485 (Modbus RTU Protocol) is optionally available with a maximum communication speed of 115200 bps and advanced communication capability, 1 to

Specification



• Remote Setpoint Capability

The setpoint can be defined from a remote PLC or other controller. (For only DC1050.)

• Manual & Automatic Modes

The control mode can be switched between Automatic and manual by clicking A/M key.

• Global Approvals – CE

All models are CE certified as a standard.

Parameter Lock

A 4-digit security code prevents any unauthorized changes of parameters or configurations. Parameters can be hidden to user to prevent any mis-configuration of the unit.

Aux. tool

Aux. tool(KA301) is available and ease to copy or backup the parameters via one USB port.

Specifications							
General							
Rated power su	upply voltage	100 to 240V AC 50)/60Hz, 8VA max.				
Insulation Resisto	ance	case(ground).	Over $10 \mathrm{M}\Omega$ under DC500V megger between output terminal an				
Withstand volto	ige			out terminal and case tput terminal and co			
Operating	Ambient Temp.	0 to 50°C	0 to 50°C				
Conditions	Ambient Humi.	20 to 90%RH (non-	condensing)				
	Rated Power Supply	100 to 240V AC					
		Approx. 4VA					
	Allowable Power	85 to 264V AC					
	Supply						
	Power Frequency	50 ± 2Hz or 60 ± 2Hz					
	Vibration Resistance	10m/s² (approx. 1G), 10 to 55Hz for 10min each X, Y, Z directions					
Transportation	Ambient Temp.	-25 to +65 °C					
and storage	Ambient Humi.	10 to +95% RH (nor	n-condensing)				
conditions	Vibration Resistance	20m/s ² (Approx. 20	G), 10 to 55Hz for 2 ha	ours each in X, Y, Z dir	ections		
Exterior		Double insulation,	Case and front pane	el : plastic			
lo di a arti a a	PV/SP indication	4-digit, 7-segment display					
Indication	Const value storage	Non-volatile memo	ory(EEPROM)				
Mounting		DIN Rail mount					
	Model		DC1060				
Exterior Size (unit	$: \frac{mm}{inch}$)	40 X 107 X43	40 X 107 X43				
:WXLXH		(1.57X4.21X 1.69)	(1.57X4.21X 1.69)				
Global Approvo	als	CE					

Interval = 20.5mm (0.807 in)

Model		DC1010/1020/1030/1040	DC1050, DC1060					
Input/Outpu	J†							
PV Input	Number of Point	1 point (TC, RTD or Linear)						
	Type of input	TC: K, J, R, S, B, E, N, T, W, PLII, U, L RTD: Pt100, JPt100, JPt50 Linear: 4~20mA / 1~5V / 2~10V * Note 1 0~20mA / 0~5V / 0~10V * Note 1	TC: K, J, R, E, T RTD: Pt100 Linear: 4~20mA*Note1					
	Range	Refer to Table 1-1. * Temperature unit: °C, °F (switchable)						
	Sampling Time	Upto 50 ms						
	Indication Accuracy	±0.1% FS ± 1 digit (for details Table1-1)						
	Cold junction accuracy	±1.0°C (under standard conditions)						
	Input bias (offset)	-1000 ~ 1000						
	Digital Filter	0.01 - 5.00 (0: filter off)						
	Decimal Point	0000, 000.0, 00.00, 0.000						
2 nd Input (RSP)	Type of input	0~20mA / 0~5V / 0~10V 4~20mA / 1~5V / 2~10V						
	Sampling Time	50ms						
CT Input	Туре	Measure AC current of single phase SC-80T: 0.0~80.0A						
	Sampling Time	50msec						
	Indication Accuracy	1% FS						
	Resolution	0.1A ac						
	Weight	12g						
	Dielectric strength	2500Vac, for 1 min between terminal and case						

NOTE 1. When OUT1 is ON and CT input value is less than HBA set value for 5 seconds, AL1 is activated.

Otherwise, AL1 is not activated.

Specificatio	n									
	Model		DC1010	DC1020	DC1030	DC1040	DC1050	DC1060		
Input/Output										
	Dolouseute	4	SPST	SPDT	SPST	SPDT	SPDT	SPST		
	Relay outp	DUT	3A, 220Vac	c, Resistive Lc	ad(100,000 t	ime electrico	al life)			
			PWM(SSR d	lrive), ON: 20	Vdc, OFF: 0	V (max. load	d current 20mA	\)		
	Voltage P	ulse	Open Time	Terminal Vo	tage: 20 Vda	c or less				
Output 1			Time Propo	rtional Cycle	Time: 0-150	sec				
			DC Current	t (mA) : 0~	20mA, 4~20n	nA (load re	sistance 500 Ω)			
	Lineauraut	t	DC Voltage	e (V) :0~	5V, 0~10V, 1	~5V, 2~10V (r	max. load curr	ent 20mA)		
	Linear out	ρυι	Accuracy	± 5%	% of Span					
			Update Cy	cle 500	m sec					
	Dalan		SPST	SPST	SPST	SPST	SPST	SPST		
	Relay		3A, 220Vac	3A, 220Vac, Resistive Load(100,000 time electrical life)						
			PWM(SSR drive), ON: 20 Vdc, OFF: 0 V (max. load current 20mA)							
Output 2	Voltage p	Voltage pulse		Terminal Vo	tage: 20 Vda	c or less				
(* Note 1)				rtional Cycle	Time: 0-150	sec				
(Note 1)			DC Current (mA) : 0~20mA, 4~20mA (load resistance 500Ω)							
	Linear	Line a sur		DC Voltage (V) : 0~5V, 0~10V, 1~5V, 2~10V (max. load current 20mA)						
	Linear		Accuracy	Accuracy ± 5% of Span						
			Update Cy	cle 500	m sec					
Output Direction	on (OUD)		HEAT(Direc	HEAT(Direct)/COOL(Reverse) (Selectable)						
Control Mode			Auto/Manu	ual operatior	is switchabl	e.(DC1020/3	0/40)			
	Output sign	nal	SP, PV retra	SP, PV retransmission						
	No. of poir	nt	1 point	1 point						
Aux. output	Type of ou	ıtput	4-20mA, 0~	20mA, 0~5V	0~10V, 1~5\	/, 2~10V				
	Accuracy		+/- 0.1% of s	span						
	Sampling	time	50 ms							
		AL1	SPST	SPDT	SPST	SPDT	SPDT	SPST		
Alarma a straist	Dolo: :	AL2	SPST	SPDT	SPST	SPDT	SPST	SPST		
Alarm output	Relay	AL3	-	SPST	SPST	SPST	-	SPST		
		Rate	3A, 220Vac	c, Resistive Lo	ad(100,000 t	ime electrico	al life)			

^{*} For Heat/Cool Control Output only.

Specifica	tion									
	Model		DC1010	DC1020	DC1030	DC1040	DC1050	DC1060		
PID Contr	ol & Auto-Tu	uning								
Proportion	al Band (P1,F	P2)	Proportion	al Band: 0.0 ~	200.0%					
Integral tin	ne (11, 12)		Integral tim	Integral time: 0 ~ 3600 sec						
Derivative	time (D1, D2	2)	0 ~ 900 sec	0 ~ 900 sec						
Auto-Tunin	ng Value		0 ~ USPL							
HYS1, HYS2	2		0 ~ 1000 (fc	or ON/OFF co	ontrol)					
Dead Ban	d (DB1)		Not define	d.						
GAP1, GA	P2		0 ~ 1000(fo	r HEAT/COO	control)					
Cycle Time	Э		0 ~ 150 sec							
Commun	ication									
Speed			1200, 2400,	4800, 9600, 19	200, 38400, 5	7600, 115200	bps			
Protocol			ModBus RTL	J, ASCII						
Parity chec	ck		Odd / Even	/ None						
Bit length /	Start / Stop b	oit	8/1/1 or 2	8/1/1 or 2						
Communic	cation		RS232C, RS4	185			RS485			
ALARMS(ALARMS(EVENTS)									
Channel	1	_	Max. 3 cha	nnels(option	al)with HBA					
		01 / 11	Deviation-l	Deviation-High alarm (inhibit / no-inhibit)						
		02 / 12	Deviation-L	Deviation-Low alarm (inhibit / no-inhibit)						
	Code	03 / 13	Deviation H	ligh/Low Lim	it alarm (inhil	bit / no-inhib	it)			
		04 / 14	Deviation H	ligh/Low Lim	it range aları	m (inhibit / n	o-inhibit)			
		05 / 15	Absolute H	igh alarm by	PV (inhibit /	no-inhibit)				
Mode		06 / 16	Absolute Lo	ow alarm by	PV (inhibit / r	no-inhibit)	hibit / no-inhibit) hibit) hibit)			
	SET VALUE		-1999~ USPL	. (Absolute vo	ılue, Deviatio	n value)				
	Activation	Hysterisis	0 ~ 1000	0~1000						
			0 : Flicker	0 : Flicker						
	Timer			ontinued ala						
_				99M 58S : on (· ·					
Program	Code	07		nd alarm(in pi	ogress of pro	gram)				
		17	Program RU	IN						
System	Code	08	System Erro	ON						
39310111	Code	18	System Erro	OFF						
TIME	Code	19	Delaying tir	ner (00Hours (00Min ~ 99Ho	ur 59Min)				
НВА	Code	09	Heater Bred	ak Alarm for o	nly AL1					
	•	•	•							

Specification	on	
Program (C	Optional)	
	No. of patterns	2 (Program 1 & Program 2)
	No. of segments	8 segments/1 program
	Segment time	Segment time: Setting by set points(SP) and time (Max. 99hours 59minutes)
	Control output	0~100% When OUT=0%, Program End.
Program section	WAIT function	Rear Wait Time may exceed set time of the particular segment. In this case, remaining time is set as 0 and pending; if the temperature that was measured does not reach target value ± WAIT set point. It proceeds to the next segment after it is confirmed that temperature reach the range of set point (target value ± WAIT) Setup range: ± 0 ~ 1000 by decimal point.
	Repeat	Repeat(infinitely) / Non-repeat
	Program link	When Program number is 0, Link program 1 and 2.
	Program start	(1) Start from SP=0 (2) Start from PV
	Power Failure	Hot Start / Cold Start
	TIME UNIT	Hour. Minute / Minute. Second

Table 1-1

Analog I	nput Ran	ge (Theri	mocouple)			
	_		Temper	ature Range	Indication	
Input	Туре	Code	°C	°F	Accuracy	Remarks
	K	K1	-50.0~600.0	-58.0~999.9	+/-0.1%FS	
	N.	K2	-50 ~ 1200	-58~2192	- +/-0.1 ∕₀г3	
	J	J1	-50.0~400.0	-58.0~752.0	+/-0.1%FS	
	J	J2	-50 ~ 1200	-58~2192	1/-0.1/613	
	R		-50~1760	-58~3200	+/-0.1%FS	+/-2 °C under 100 °C
	S		-50~1760	-58~3200	+/-0.1%FS	+/- 3.6 °F under 212 °F
TC	В	,	-50~1820	-58~3308	+/-0.1%FS	No guarantee at 0 ~ 400°C
(Note1)	E		-50~900	-58~1652	+/-0.1%FS	
	١	1	-50~1300	-58~2372	+/-0.1%FS	
	_	T1	-199.9~400.0	-199.9~752.0	. / 0 10750	+/-1 °C under -100 °C
	T	T2	-199~400	-326~752.0	+/-0.1%FS	+/-1.8 °F under -148 °F
	٧	/	-50~2320	-58~4208	+/-0.1%FS	W5Re/W26Re
	PL	.11	-50~1200	-58~2192	+/-0.1%FS	
	L	-	-50~800	-58~1472	+/-0.1%FS	

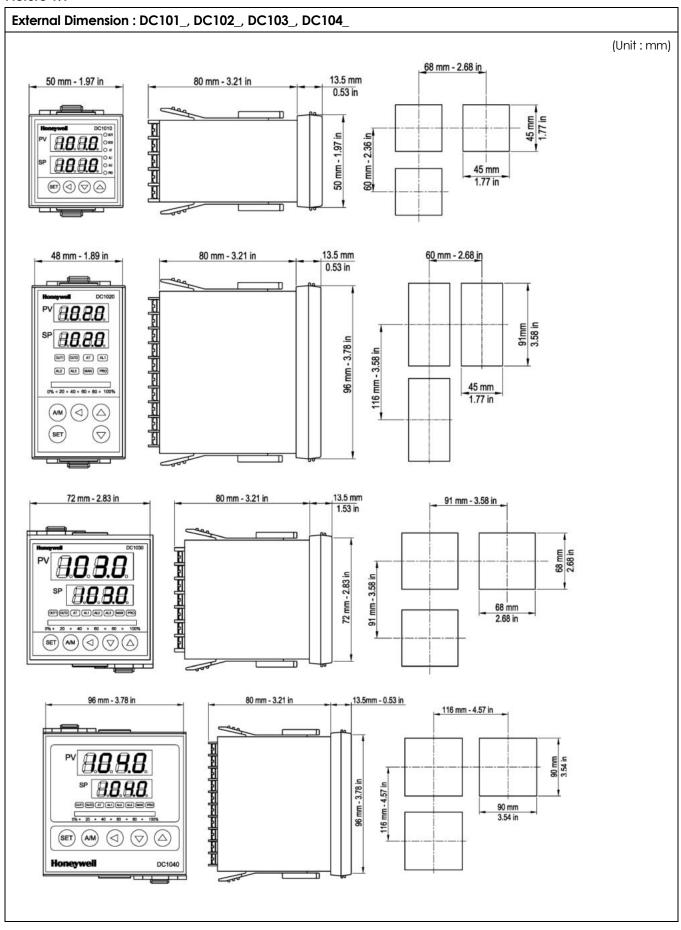
Table 1-2

Analog Input Range (RTD)								
Input Type			Input Type		Indication			
		Code	°C	°F	Accuracy	Remarks		
	DIN	P†1	-199.9~850.0	-199.9~999.9		1/0 5 0C under 100 0C		
RTD	DIN Pt100	Pt2	-199~850	-326~1562.0	+/-0.1%FS	+/-0.5 °C under -100 °C +/-0.9 °F under -148 °F		
	FIIOU	Pt3	Pt3 0~850 32~1562.0			+7-0.7 F Under -146 F		

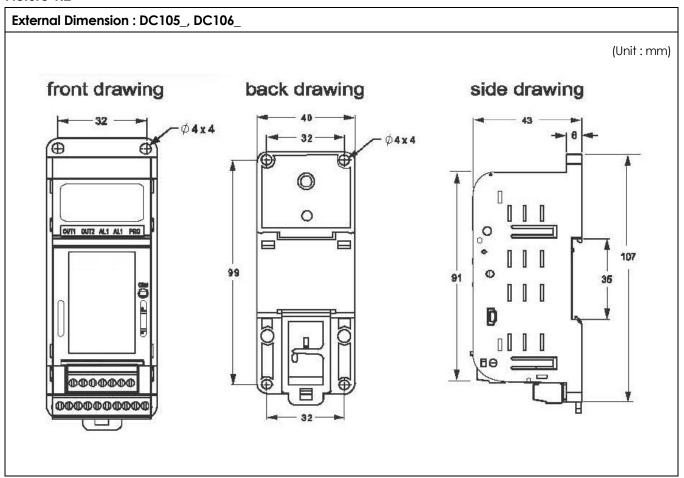
Table 1-3

Analog Input Range (Linear)									
Input Type Code Source		Range	Indication Accuracy	Remarks					
Linaar	AN2	0~50mV	1000,0000	. / O 107 of on our	0-20mA, 0-1V, 0-5V, 0-10V				
Linear	AN4	10~50mV	-1999~9999	+/-0.1% of span	4-20mA , 1-5V, 2-10V				

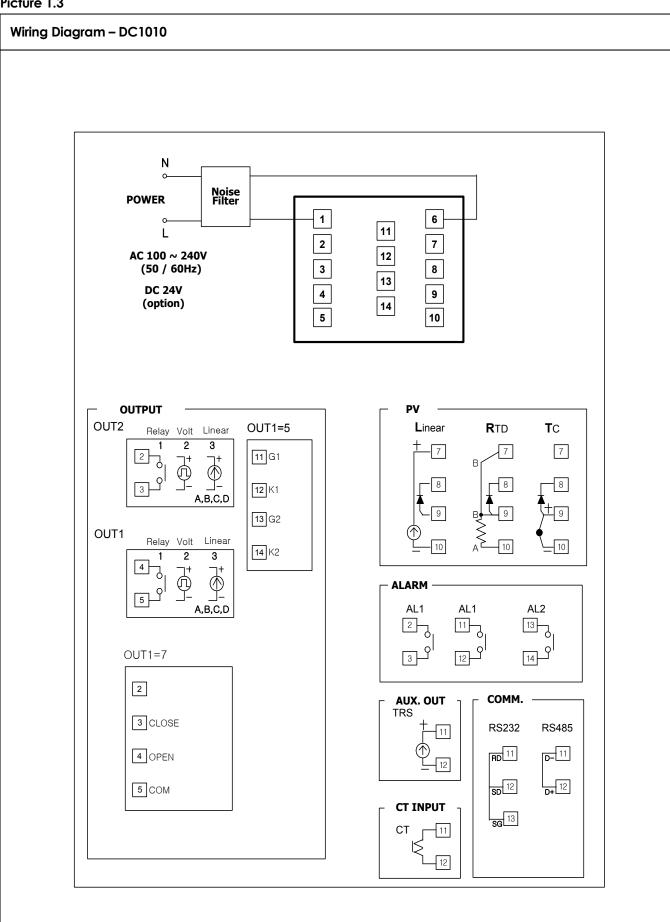
Picture 1.1

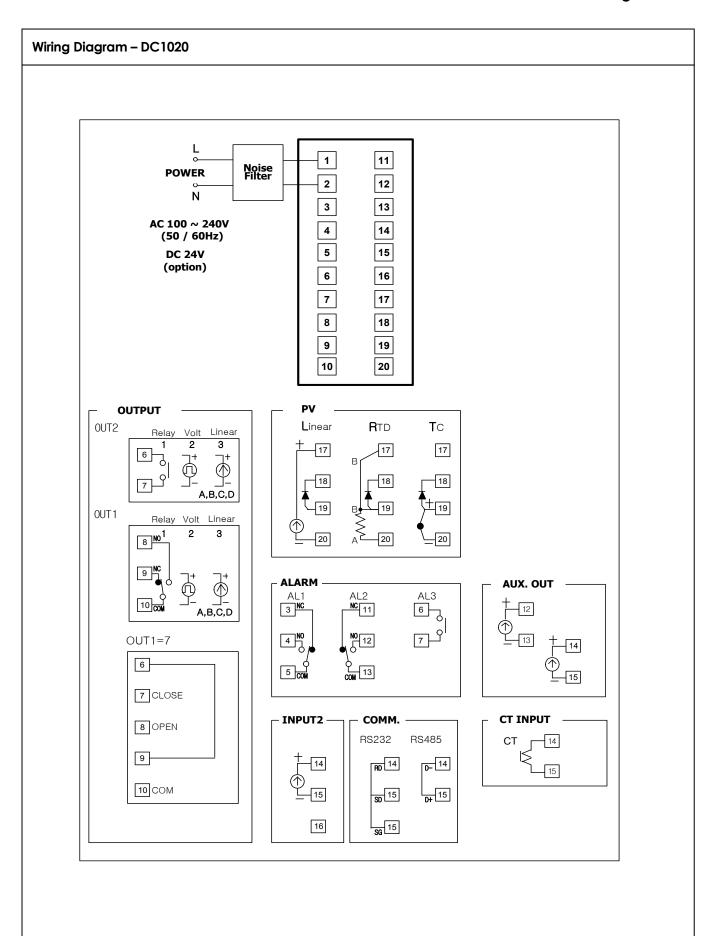


Picture 1.2

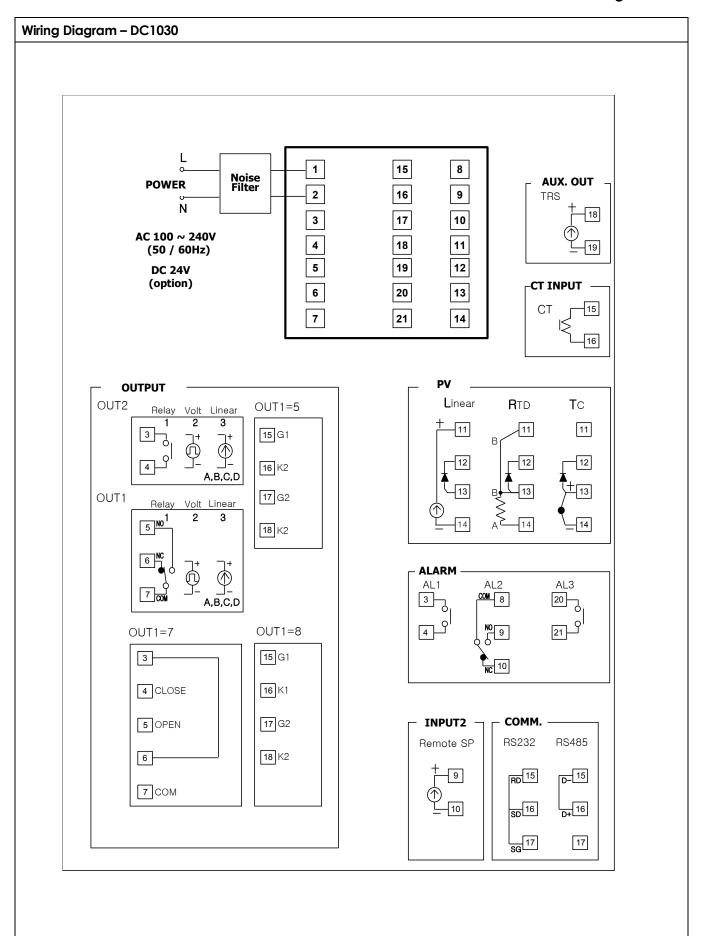


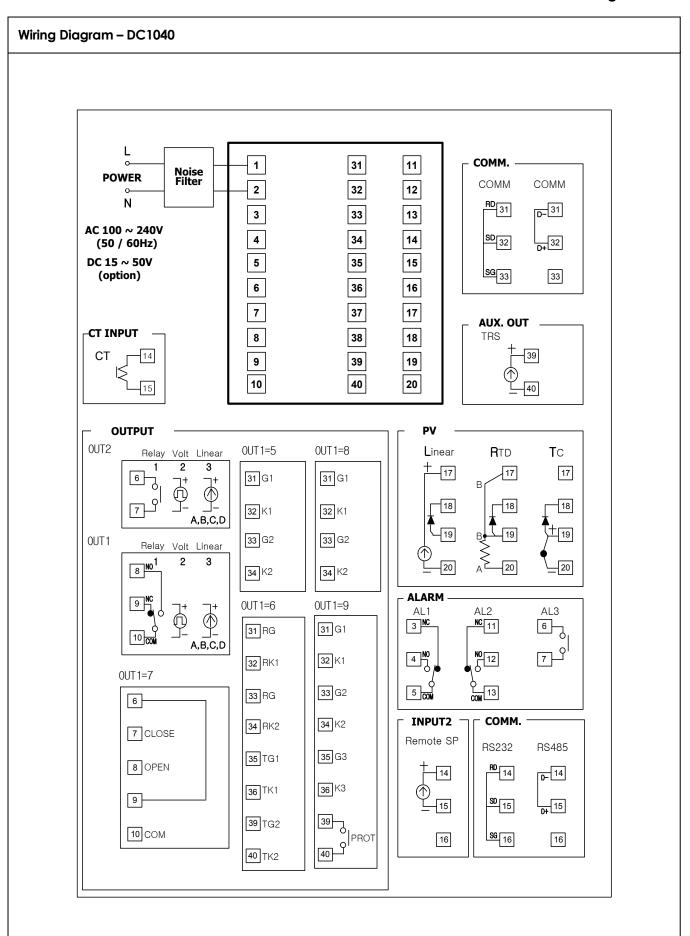
Picture 1.3



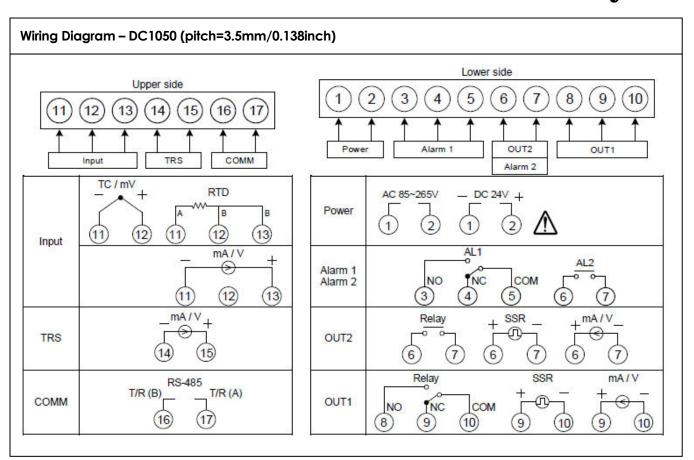


Picture 1.6

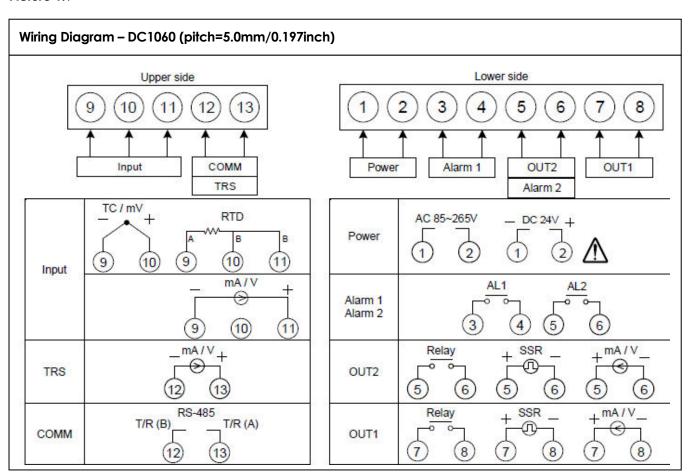




Picture 1.8



Picture 1.9



Model Interpretation – DC101 ,DC102 ,DC103 ,DC104

Select the desired Key Number. The arrow to the right marks the selections available.									
Make one selection each from Tables I through III using the column below the proper arrow.									
A dot () denotes	A dot () denotes unrestricted availability. A letter denotes restricted availability.								
Key Numbers	1	II	III	IV					
DC10		- F □	- _						

KEY NUMBER

	Description	Selection			Avail	abilit	у	
	48 x 48 mm (DIN) 1/16)	DC101	\					
Size	48 x 96 mm (DIN 1/8)	DC102		₩				
	72 x 72 mm	DC103			₩			
	96 x 96 (DIN 1/4)	DC104				₩		
	DIN RAIL Mounting	DC105					\	_
	DIN RAIL Mounting(Economic)	DC106						\
	90-240 Vac Power/CE Mark	DC10_0_	•	•	•	•	•	•
Power	24 Vdc Power / CE	DC10_1	•	•	•	•		
	90-240 Vac Power / IP 65 / CE	DC10_2	•	•	•	•		
	24 Vdc Power / IP65 / CE	DC10_3	•	•	•	•		
	90-240 Vac Power/IP65/CE/cUL Agency Approval	DC10_4	•	•	•	•		
	24 VDC Power/IP65/CE/cUL Agency Approval	DC10_5	•	•	•	•		
Program	None	DC10C_	•	•	•	•	•	•
Flogram	Program (18 patterns, 144 segments per 1 pattern)	DC10P_	•	•	•	•		
	RTD	DC10R	•	•	•	•	•	•
Input	тс	DC10T	•	•	•	•	•	•
	Linear	DC10L	•	•	•	•	•	•

TABLE I

	None	0	•	•	•	•	•	•
	Relay, Contact, SPDT, 3A / 240 VAC	1	•	•	•	•	•	•
	Volt, Voltage Pulse, 20VDC / 20 mA	2	•	•	•	•	•	•
Output #1	mA Current, 4-20mA	3	•	•	•	•	•	•
	1 phase SSR Drive(Zero Corssing)	5	s1		s2	s3		
	3 phase SSR Drive(Zero Corssing)	6				t1		
(Control Output)	Open loop motor control(without feedback)	7		а	b	а	b	
	1 phase SCR Drive(Phase control)	8		u1	u2	u3		
	3 phase SCR Drive(Phase control)	9				v1		
	0-5 V	A	•	•	•	•	•	•
	0-10 V	B	•	•	•	•	•	•
	1-5 V	C	•	•	•	•	•	•
	2-10 V	D	•	•	•	•	•	•
	None	_0_	•	•	•	•	•	•
	Relay, Contact, SPDT, 3A / 240VAC	_1_	•	•	•	•	•	•
	Volt, Voltage Pulse, 20VDC / 20mA	_2_	•	•	•	•	•	•
Output #2	mA Current, 4-20mA	_3_	•	•	•	•	•	•
(Control Output)	0-5V	_ A _	•	•	•	•	•	•
	0-10V	_B_	•	•	•	•	•	•
	1-5V	_ C _	•	•	•	•	•	•
	2-10V	_D_	•	•	•	•	•	•
	None	0	•	•	•	•	•	•
Alarm	1 Alarm Relay	1	С	•	•	•	•	•
	2 Alarm Relays	2	d	е	h	•	g	r
	3 Alarm Relays	3		f	i	j		q
	НВА	A	с1	c2	c3	c4		
	HBA + 1 Alarm Relay	B	d1	d2	d3	d4		
	HBA + 2 Alarm Relays	C		f1	f2	f3		

		DC10	10	20	30	40	50	60
Table II		Selection	\downarrow	\downarrow	\downarrow	\downarrow	\downarrow	\downarrow
Transmitter	None	0	•	•	•	•	•	•
	4-20 mA	1	•	•	•	•	•	•
	0-20 mA	2	•	•	•	•	•	•
	0-5 V	A	•	•	•	•	•	•
	0-10 V	B	•	•	•	•	•	•
	1-5 V	C	•	•	•	•	•	•
	2-10 V	D	•	•	•	•	•	•
Remote SP	None	_ 0 _	•	•	•	•	•	•
	4-20 mA	_1_	o	k	k	k	k	
	0-20 mA	_ 2 _	o	k	k	k	k	
	0-5 V	_ A _	О	k	k	k	k	
	0-10 V	_ B _	О	k	k	k	k	
	1-5 V	_ C _	О	k	k	k	k	
	2-10 V	_ D _	0	k	k	k	k	
Communication	None	0	•	٠	•	•	•	•
	RS-232 (Modbus RTU)	A	m	n	•	•		
	RS-485 (Modbus RTU)	B	р	n	•	•	•	•
TABLE III								
Manual	English	E	•	•	•	•	•	•
	Chinese	С	•	•	•	•		
	Korean	К	•	•	•	•		
	French	F	•	•	•	٠		
TABLE IV								
Extended warraty	None	0	•	•	•	•	•	•
	Extended Warranty - 1 year	1	•	•	•	•	•	•
	Extended Warranty - 2 years	2	•	•	•	•	•	•

Warranty / Remedy

Honeywell warrants goods of its manufacture as being free of defective materials and faulty workmanship. Contact your local sales office for warranty information. If warranted goods are returned to Honeywell during the period of coverage, Honeywell will repair or replace without charge those items it finds defective. The foregoing is Buyer's sole remedy and is **in lieu of all other warranties**, **expressed or implied**, **including those of merchantability and fitness for a particular purpose**. Specifications may change without notice. The information we supply is believed to be accurate and reliable as of this printing. However, we assume no responsibility for its use.

While we provide application assistance personally, through our literature and the Honeywell web site, it is up to the customer to determine the suitability of the product in the application.

Specifications are subject to change without notice.

