

SDC30

DigitroniK

Digital Indicating Controller

The SDC30 is a compact (48mm×96mm) digital indicating controller offering standard PID control, advance neural/fuzzy PID, multi-range inputs including thermocouple, resistance temperature detector (RTD), DC voltage and DC current inputs.

Remote switch input, control parameters and local set points can be set using a PC loader.



CONTROLLERS

Specifications

General	Memory backup	Semiconductor non-volatile memory
	Power supply voltage	85 to 264Vac, 50/60Hz, or 24Vdc ± 5%
	Power consumption	18VA max.
	Ambient temperature	0 to 50°C
	Ambient humidity	10 to 90%RH (no condensation allowed)
PV input	Weight	Approx. 400g
	Type	Multirange: Thermocouple, RTD, DC voltage/current
	Sampling cycle	0.2s
	Bias	-1999 to +9999U (U: industrial unit)
Indication & Setting	PV, SP indication	4-digit, 7-segment LED
	OK lamp	Control deviation value indicated by greenbelt
	No. of setpoints	1 to 8 points selectable
	Range	Selectable
	Indication accuracy	± 0.2%FS ± 1 digit (not specified for B in 0-260°C range) ± 0.3%FS ± 1 digit for 0-10mV input
	Setting method	Local setting (standard), Remote setting (optional, remote/local changeable)
Control Output	No. of PID sets	8
	PID auto-tuning	Automatic setting of PID value by limit cycle method and neural/fuzzy/smart method
	Output limiter %	Lower: 0 to upper limit Upper: Lower limit to 100
	Control action	Direct/reverse electable
Remote Switch (RSW) Input	SP ramp	0 to 9999/min, 0 to 999.9/min, 0 to 9999/h, or 0 to 999.9/h
	No. of inputs	1 or 4
	Function	LSP selection (PID group No. interlock), READY/RUN changeover, AUTO/MANUAL, LOCAL/REMOTE, auto-tuning start/stop, direct/reverse and timer start
Event (EV) Output	Type	Dry contact open collector transistor, OFF voltage: 5V ± 1V ON current: 5mA ± 2mA
	No. of outputs	1 or 2 (common)
	Type	PV, SP, DEV, DEV , MV, Motor feed back, Alarm, Timer, Control loop diagnostics, Estimated motor control mode
Auxiliary (AUX) Output	Control mode	ON/OFF SPST relay contact
	No. of outputs	1
Remote Setpoint (RSP) Bias	Type	PV, SP, RSP, RSP before bias, OUT, Motor opening (one type selectable)
	Output	4 to 20mA, load resistance: 750Ω max.
Communications	Type	4 to 20mA or 1 to 5Vdc
Auxiliary Parts (order separately)	81446082-001	Hard dust-proof cover
	81466086-001	Soft dust-proof cover
	81446088-001	Terminal cover

Selection Guide

Table	Basic Model No.	Selection								Description								
		C30	↓	↓	↓	↓	↓	↓	↓	EV1	EV2	AUX	RSP	RSW	RSW	RS-		
I	Digital indicating controller																	
		0D	○	-	○	-	-	-	-									
		6D	○	-	○	-	-	-	-									
		5G	○	-	-	○	-	-	-									
II	Control output	2G	-	○	-	-	○	-										
		A0	○	○	-	-	-	-										
III	Power supply	D0	○	○	-	-	-	-										
IV	Option (1)	001	○	○	-	○	○	-										
		003	○	-	-	-	○	○	-									
		004	○	-	-	-	○	○	○									
		040	-	○	-	-	-	-	-									
		041	○	-	○	-	-	○	-									
		406	○	-	-	○	-	○	○									
		407	-	○	-	-	○	○	-									
		00	○	○	○	○	○	○	○									
V	Option (2)	D0	○	○	○	○	○	○										
		T0	○	○	○	○	○	○	○									

Dimensions (unit:mm)

