



SDC26

Super DigitroniK Single Loop Controller

The DigitroniK SDC26 is a digital indicating controller featuring multiple input types and a PID control system using the new "RationalLOOP" and "Just-FITTER" algorithms.

Up to two control outputs (depending on the exact model) can be used, which are selectable from relay, voltage pulse, and current output.



DIGITAL CONTROLLERS

Specifications

PV input	Type	Selectable from multiple input types: thermocouple, RTD, DC current and DC voltage					
	Sampling cycle	0.3s					
Indication	Indication method	4-digit, 7-segment LED. (PV: Upper green display, SP: Lower orange display)					
	Indication accuracy	±0.3% FS ± 1 digit. In the negative area of the thermocouple, the accuracy is ±0.6% FS ± 1 digit (at an ambient temperature of 23±2°C).					
Control output	Model No. Segment II	R0	V0	VC	VV	C0	CC
	Control output 1	Relay	Voltage pulse (for SSR drive)	Voltage pulse (for SSR drive)	Voltage pulse (for SSR drive)	Current	Current
	Control output 2	-	-	Current	Voltage pulse (for SSR drive)	-	Current
	Control action	ON/OFF control, Time proportional PID, Current proportional PID					
	No. of PID groups	Max. 4					
Remote switch input	No. of inputs	Max. 4					
	Function	UP to 4 kinds of SP selections, PID selection, RUN/READY selection, AUTO/MANUAL selection, Auto-tuning stop/start, etc.					
Event	No. of outputs	2 to 3 (according to the model)					
	Type	PV high limit, PV low limit, PV high/low limit, Deviation high limit, Deviation low limit, Deviation high/low limit, etc.					
Communications	RS-485						
Current transformer inputs	2 (option)						
General	Power	AC model: 100 to 240Vac 50/60Hz DC model: 24Vac 50/60Hz / 24Vdc					
	Power consumption	AC model: 12VA max. DC model: 12VA max. (24Vac), 8W max. (24Vdc)					
	Standards compliance	CE: EN61010-1, EN61326 cUL: File No. E246616					
	Mass	Approx. 300g (including socket)					

Selection Guide I II III IV V VI VII Example: C26TR0UA1000

Segment	Model No. selection	Description				
I	Basic No.	C26T	↓	↓	Single loop controller	
II	Control output			Output 1	Output 2	
		R0	<input type="radio"/>	Relay	-	
		V0	<input type="radio"/>	Voltage pulse (for SSR drive)	-	
		VC	<input type="radio"/>	Voltage pulse (for SSR drive)	Current	
		VV	<input type="radio"/>	Voltage pulse (for SSR drive)	Voltage pulse (for SSR drive)	
		C0	<input type="radio"/>	Current	-	
		CC	<input type="radio"/>	Current	Current	
III	PV input	U	<input type="radio"/>	Universal (full multi) input		
IV	Power	A	<input type="radio"/>	100 to 240Vac 50/60Hz		
		D	<input type="radio"/>	24Vac 50/60Hz, 24 to 48Vdc		
V	Option 1			EV (digital outputs)	Auxiliary output	
		1	<input type="radio"/>	3	-	
		2	<input type="radio"/>	3	Current	
		4	<input type="radio"/>	2 independent outputs	-	
		5	<input type="radio"/>	2 independent outputs	Current	
VI	Option 2			2 CT inputs	4 digital inputs (DI)	RS-485 communications
		0	<input type="radio"/>	-	-	-
		1	<input type="radio"/>	○	○	-
		2	<input type="radio"/>	○	○	○
VII	Option 3	00	<input type="radio"/>	None		
		D0	<input type="radio"/>	With test data		
		T0	<input type="radio"/>	Tropicalization		
		K0	<input type="radio"/>	Antisulfidization		
		B0	<input type="radio"/>	Tropicalization + test data		
		L0	<input type="radio"/>	Antisulfidization + test data		
		Y0	<input type="radio"/>	With traceability certification		

* A circle (○) denotes availability.

Accessories (sold separately)

Model No.	Description
SLP-C35J50	Smart Loader software with user's manual and loader cable
SLP-C35J51	Smart Loader software without user's manual and loader cable
QN206A	Current transformer (5.8mm dia.)
QN212A	Current transformer (12mm dia.)
81446916-001	Hard cover
81441122-001	Soft cover
81446913-001	Terminal cover

Input Types and Ranges

Range code	Input type	Range (°C)
1	K	-200 to +1200
2		0 to 1200
3		0.0 to 800.0
4		0.0 to 600.0
5		0.0 to 400.0
6		-200.0 to +400.0
7	-200.0 to +200.0	
8	J	0 to 1200
9		0.0 to 800.0
10		0.0 to 600.0
11		-200.0 to +400.0
12	E	0.0 to 800.0
13		0.0 to 600.0
14	T	-200.0 to +400.0
15	R	0 to 1600
16	S	0 to 1600

Range code	Input type	Range (°C)
17	B	0 to 1800
18	N	0 to 1300
19	PL II	0 to 1300
20	Wre5-26	0 to 1400
21		0 to 2300
22	Ni-NiMo	0 to 1300
23	PR40-20	0 to 1900
24	DIN U	-200.0 to +400.0
25	DIN L	-100.0 to +800.0
26	Gold-iron/Chromel	0.0 to 360.0K (K: Kelvin)
41	Pt100	-200.0 to +500.0
42	JPt100	-200.0 to +500.0
43	Pt100	-200.0 to +200.0
44	JPt100	-200.0 to +200.0
45	Pt100	-100.0 to +300.0
46	JPt100	-100.0 to +300.0

Range code	Input type	Range (°C)
47	Pt100	-100.0 to +200.0
48	JPt100	-100.0 to +200.0
49	Pt100	-100.0 to +150.0
50	JPt100	-100.0 to +150.0
51	Pt100	-50.0 to +200.0
52	JPt100	-50.0 to +200.0
53	Pt100	-50.0 to +100.0
54	JPt100	-50.0 to +100.0
55	Pt100	-60.0 to +40.0
56	JPt100	-60.0 to +40.0
57	Pt100	-40.0 to +60.0
58	JPt100	-40.0 to +60.0
59	Pt100	-10.00 to +60.00
60	JPt100	-10.00 to +60.00
61	Pt100	0.0 to 100.0
62	JPt100	0.0 to 100.0

Range code	Input type	Range (°C)
63	Pt100	0.0 to 200.0
64	JPt100	0.0 to 200.0
65	Pt100	0.0 to 300.0
66	JPt100	0.0 to 300.0
67	Pt100	0.0 to 500.0
68	JPt100	0.0 to 500.0
81		0 to 10mV
82		-10 to +10mV
83		0 to 100mV
84		0 to 1V
86		1 to 5V
87		0 to 5V
88		0 to 10V
89		0 to 20mA
90		4 to 20mA

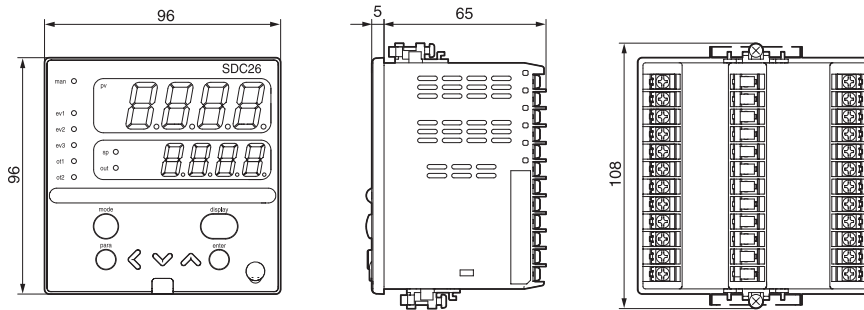
Scaling range is -1999 to +9999. Decimal point position changeable.

*°F display is selectable.

Dimensions

(Unit: mm)

• SDC26



• Panel cutout

