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Digitronik Line SDC100 Series

Product Manual

Digital Indicating Controller



CONTENTS

1. MODEL NUMBER TABLE	1
2. SPECIFICATIONS	2
3. EXTERNAL DIMENSIONS AND PANEL CUTOUT DIMENSIONS	6
4. INSTALLATION	6
5. CONNECTIONS	7
6. PREPARATION FOR OPERATION	11
7. APPEARANCE, NAMES OF COMPONENT PARTS, AND CONTROL CONSTANT SETTING ASSEMBLY	13
8. SETTING AND ADJUSTMENT OF VARIOUS CONTROL CONSTANTS	16
9. ATTACHED FIGURE: Control Constant Setting Scale Characteristics	21
10. MAINTENANCE CHECK	27

1. MODEL NUMBER TABLE

Model Number Table I II III IV V

Code No.	Model No.	Specifications						
I	Basic model numbers	SDC100	Local indicating controller					
		SDC101	Local indicating controller/alarm					
		SDC102	Remote/local indicating controller					
		SDC103	Remote/local indicating controller/alarm					
II	Control action output	4Y	Indicator	Indicator only for indication without control function	Applicable to SDC100 and 101 only			
		0A	ON-OFF	Relay output				
		0B	Time proportional + manual reset	Relay output				
		6B	Time proportional + manual reset	Voltage output				
		3H	Heat (time proportional) + cool (time proportional) + manual reset	Relay output + relay output				
		9H	Heat (time proportional) + cool (time proportional) + manual reset	Voltage output + relay output				
		0D	Time proportional PID	Relay output				
		6D	Time proportional PID	Voltage output				
		2G	Position proportional PID	Modutrol motor driving relay output				
		5G	Continuous PID	Current output				
III	Input type range	Input type Range Resolution Indication accuracy (under reference condition)						
		E04	Thermocouple E	0 to 400°C	1°C	±0.5%FS±1 digit		
		E08	Thermocouple E	0 to 800°C	1°C	±0.5%FS±1 digit		
		J04	Thermocouple J	0 to 400°C	1°C	±0.5%FS±1 digit		
		J06	Thermocouple J	0 to 600°C	1°C	±0.5%FS±1 digit		
		K04	Thermocouple K	0 to 400°C	1°C	±0.5%FS±1 digit		
		K08	Thermocouple K	0 to 800°C	1°C	±0.5%FS±1 digit		
		K09	Thermocouple K	0 to 1200°C	1°C	±0.5%FS±1 digit		
		T47	Thermocouple T	-100 to 300°C	1°C	±0.5%FS±1 digit		
		B18	Thermocouple B	0 to 1800°C	1°C	0 to 400°C Not specified 400 to 700°C± 3%FS±1 digit 700 to 1800°C±0.5%FS±1 digit		
		D19	Thermocouple PR40-20	0 to 1900°C	1°C	0 to 600°C± 3%FS±1 digit 600 to 1900°C± 1%FS±1 digit		
		R16	Thermocouple R	0 to 1600°C	1°C	0 to 300°C±1.5%FS±1 digit 300 to 1600°C±0.5%FS±1 digit		
		S16	Thermocouple S	0 to 1600°C	1°C	0 to 500°C±2.5%FS±1 digit 500 to 1600°C±0.5%FS±1 digit		
		W20	Thermocouple WRe5-26	*1 0 to 2000°C	1°C	0 to 200°C± 1%FS±1 digit 200 to 2000°C±0.5%FS±1 digit		
		W40	Thermocouple WRe0-26	*2 0 to 2000°C	1°C	0 to 500°C± 5%FS±1 digit 500 to 2000°C±0.5%FS±1 digit		
		P01	JIS Pt100Ω	0 to 100°C	0.1°C	±0.5%FS±1 digit		
		P02	JIS Pt100Ω	*3 0 to 200°C	0.1°C	±0.5%FS±1 digit		
		P03	JIS Pt100Ω	0 to 300°C	1°C	±0.5%FS±1 digit		
		P05	JIS Pt100Ω	0 to 500°C	1°C	±0.5%FS±1 digit		
		P10	JIS Pt100Ω	0 to 50°C	0.1°C	±0.5%FS±1 digit		
		P34	JIS Pt100Ω	-50 to 50°C	0.1°C	±0.5%FS±1 digit		
		P43	JIS Pt100Ω	-200 to 50°C	0.1°C	±0.5%FS±1 digit		
		P44	JIS Pt100Ω	-200 to 300°C	1°C	±0.5%FS±1 digit		
		P45	JIS Pt100Ω	-100 to 100°C	1°C	±0.5%FS±1 digit		
		N35	Ni508Ω	-50 to 150°C	0.1°C	±0.5%FS±1 digit		
		N39	SSP129B	-45 to 70°C	0.1°C	±0.5%FS±1 digit		
		C01	4 to 20mA linear	0 to 100%	0.1%	±0.5%FS±1 digit		
		C02	4 to 20mA linear	0 to 50%	0.1%	±0.5%FS±1 digit		
		C03	4 to 20mA linear	0 to 100°C	0.1°C	±0.5%FS±1 digit		
		C14	4 to 20mA linear	0 to 14PH	0.1PH	±0.5%FS±1 digit		
		C81	4 to 20mA linear	-20 to 80°C	0.1°C	±0.5%FS±1 digit		
		L51	-5 to 5mV linear	-50 to 50%	0.1%	±0.5%FS±1 digit		
		M01	0 to 10mV linear	0 to 100%	0.1%	±0.5%FS±1 digit		
		V01	1 to 5V linear	0 to 100%	0.1%	±0.5%FS±1 digit		
		V52	1 to 5V linear	0 to 200	0.1	±0.5%FS±1 digit		
V53	1 to 5V linear	0 to 300	1	±0.5%FS±1 digit				
V54	1 to 5V linear	0 to 400	1	±0.5%FS±1 digit				
V55	1 to 5V linear	0 to 500	1	±0.5%FS±1 digit				
V58	1 to 5V linear	0 to 800	1	±0.5%FS±1 digit				
V60	1 to 5V linear	0 to 50	0.1	±0.5%FS±1 digit				
V65	1 to 5V linear	0 to 1000	1	±0.5%FS±1 digit				
IV	Power voltage	0	AC100/110V, 200/220V 50-60Hz					
		4	AC120V, 240V 50-60Hz					
V	Additional functions	Specifications				Models to which additional functions are applicable		
		00	None			All models		
		F0	A fine control potentiometer is provided.			SDC100 0B, 5G		
		R00	Auxiliary output 4 to 20mA	Alarm monitor	Span type	Relay contact SPST	SDC1004Y	
			Provided	Not provided	—	—		
			Not provided	Provided	Wide span type	NO+NO		SDC101, 103
			Not provided	Provided		NC+NC		SDC101, 103
			Provided	Provided		NO+NO		SDC1014Y
			Provided	Provided		NC+NC		SDC1014Y
			Not provided	Provided	Narrow span type	NO+NO		SDC101, 103
			Not provided	Provided		NC+NC		SDC101, 103
		Provided	Provided	NO+NO		SDC1014Y		
		Provided	Provided	NC+NC		SDC1014Y		
		B00	Down scale, burnout			SDC100, 102		
		Q00	Down scale, burnout			Y0 of SDC101,103 or equivalent		
Q01	Down scale, burnout			Y1 of SDC101,103 or equivalent				
Q02	Down scale, burnout			Y2 of SDC101,103 or equivalent				
Q03	Down scale, burnout			Y3 of SDC101,103 or equivalent				

* The maximum indicating range in *1 and 2 is 1999°C, and that of *3 is 199.9°C.