

DCP551A Mark II

DigitroniK

Digital Control Programmer

The DCP551 is a programmable controller (up to 99 program patterns), to which thermocouple, resistance temperature detector (RTD), DC voltage and DC current can be applied as input signals.

Features include 16 event outputs, 16 remote switch inputs, memory card interface and optional communication input/output and auxiliary output.



CONTROLLERS

Specifications

General	Memory backup	RAM backed up by lithium battery	
	Power supply voltage	90 to 264Vac, 50/60Hz	
	Power consumption	25VA max.	
	Ambient temperature	0 to 50°C	
	Ambient humidity	10 to 90%RH (no condensation allowed)	
Program Pattern	Weight	Approx. 1.5kg	
	No. of programs	99	
	No. of segments	99/program (2000 in total)	
	Segment time	0 to 500/h or 0 to 500/min, 0.0 to 3000.0/s	
	Sub-functions	Event, PID group, output limiter group, G. Soak, PV shift and repeat setting (400 settings in total)	
	PID group	Group 0 (continuing from previous segment), groups 1 to 9 Group A (automatic changeover) ON-OFF control settable	
	Output limiter group	Group 0 (continuing from previous segment), group 1 to 9 settable	
	G. Soak	Type (start point, end point, all) and G. Soak width 0 to 1000U settable	
	PV start	Type settable for each program (ascending, descending and bi-directional)	
	Cycle	Cycle count No. settable for each program	
	Pattern link	Program No. 0 to 99 (program 0 without link) settable for each program	
	Tag	8 characters consisting of alphanumerics and symbols settable for each program	
	Basic time accuracy	± 0.01% (segment time setting = 0, repeat and cycle delays 0.1 sec. for each time)	
	PV Input	No. of channels	1
		Type	Thermocouple, RTD, DC voltage, DC current multi-range
		Sampling cycle	0.1s
		Bias	-1000 to +1000U (U: industrial unit)
	Remote Switch (RSW) Input	No. of inputs	16
Function		Fixed: RUN, HOLD, RESET, ADV, program No. Variable: RAMP-E, FAST, AT, AUTO/MANUAL, G. SOAK reset direct/reverse operation, auto-load, PV1/2 selection	
	Type	Dry relay contact and open collector	
Indication & Setting	Indicator	2 or 5-digit, 7-segment LED (green or orange)	
	Profile display	7 orange LED's	
	Message display	Output graph, deviation graph, event status and others	
Control	Control mode	Program or constant value control	
	Control output	5G and AUX CH1&2: 4 to 20mA, 6D: Voltage, 8D: Open collector	
	Output accuracy	± 0.1%FS	
	PID auto-tuning	Automatic setting of PID value by limit cycle system	
	No. of PID sets	16 for program operation	
	MV limit %	Lower: -5.0 to upper limit Upper: Lower limit to 105.0	
	MV change limit	0.1 to 110.0%/0.1 s	
	Direct/reverse	Changeover settable	
	Auxiliary (AUX) Output	1 or 2 out of SP, DEV, MV, PV1 and PV2	
	Event (EV) Output	No. of outputs	16
Type		PV-, time-, code- and mode-based	
Communications		RS-485, RS-232C	
Auxiliary	81446141-001	Soft dust-proof cover	
Parts (order separately)	81446140-001	Lithium battery	
	SKM008A, SKM016A, SKM064A	Memory card (RAM, battery not replaceable)	
	SKM256C	Memory card (RAM, replaceable battery)	
	SKM008E, SKM032E	Memory card (EPROM, battery not required)	

Selection Guide

Table	Selection	Description
I	Basic Model No. DCP551A	Digital control programmer Mark II
II	PV Input 1	1 channel
	2	2 channels
III	Option (1) 0	Fixed number
IV	Option (2) 1	1 Auxiliary output
	2	2 Auxiliary outputs and RS-485, RS-232C communication
V	Option (3) 00	None
	D0	With text data

Dimensions

