



SDU10

Compact Operation Unit

The SDU10 is a compact operation display unit for the Modular Controller DMC10.

The SDU10 can be used as a monitor/operation device especially for on-site use in addition to use as a communications device with a personal computer, touch panel or other host device.

A "recipe" function enables DMC setup parameters (SP, P, I, D, etc.) that differ according to product lot to be stored internally on the SDU10 so that they can be batch changed by key operation, external switch input or remote communications.



DIGITAL CONTROLLERS

Specifications

General specifications	Memory backup		Nonvolatile semiconductor memory	Additional functions	External switch input	Allowable ON residual voltage	Max. 1V
	Power		24Vdc			Open terminal voltage	5Vdc
	Power consumption		Max. 3W		ON terminal current	Approx. 4mA	
	Insulation resistance		Between power and secondary terminals: 20MΩ min. (by 500V megger)		Event output	No. of outputs	2 (shared use with external switch input)
	Dielectric strength		Between power and secondary terminals: 500Vac for 1 min			Functions	ON output when error lamp lights, when desired channel is ready, when auto-tuning is executed on desired channel, when event 5 of all modules is ON, when event tables 5 to 8 of all modules are on, when event table 5 of a desired module is ON, when event tables 5 to 8 of a desired module are ON.
	Inrush current at power ON		Max. 10A		Output type	Open collector	
	Isolation		<ul style="list-style-type: none"> Between power circuit and secondary circuit Between host communications and slave communications Non-isolation between slave communications and RSW/EVENT 		Output rating	30Vdc, max. 70mA	
					Operating conditions	Ambient temperature	0 to 50°C
						Ambient humidity	10 to 90% RH
					Power	Power	21.6 to 26.4Vdc
						Vibration resistance	0 to 2m/s ²
	Shock resistance	0 to 10m/s ²					
	Storage/transportation	Ambient temperature	-20 to +70°C				
		Ambient humidity	10 to 90% RH				
		Package drop	60cm				
Mass		Max. 200g	Host/slave communications	Signal level	RS-485 compliant		
Terminal screw tightening torque		Max. 0.25N·m		Transmission path connection	Multi-point (Host: max. 31 units, Slave: max. 15 DMC10 units)		
Standards compliance		EN50081-2, EN50082-2, IP60	Communications type	Half duplex, asynchronous			
Additional functions	External switch input	No. of inputs	8 (two of which are shared with events)	Max. line length	Max. 500m		
		Functions	RUN/READY changeover, AT start/stop, recipe set changeover, event latch cancellation, clearing the max./min. PV value.	Terminator	External terminator must not be attached because terminating resistance is built in.		
	Allowable ON contact resistance	Max. 250Ω	Parameter	Monitor mode	SP, PV, MV, CT, RUN/READY changeover		
	Allowable OFF contact resistance	Min. 100KΩ		Parameter mode	PID, AT start/stop, user defined items (20 types)		
	Display function	Display details		PV & PV, SP & PV, SP & SP display			
Recipe		No. of recipe sets	Max. 99				
Number of buffering parameters		No. of parameter types		Max. 199			
				10 types / DMC10 (per unit)			

Selection Guide

Model No.	Description
SDU10T0100	Compact operation unit for DMC10

Dimensions

(Unit: mm)

