





Product Overview




Intelligent Display Unit - Serial / Parallel / RS485 communication input type

Model	Basic unit	DS16-□S/T	D□22-□S/P/T	D□40-□S/P/T	D□60-□S/P/T
	Expansion unit	DS16-□E	D□22-□E	D□40-□E	D□60-□E
Appearances & Dimensions					
	[W16×H24×L39.5mm]	[W20×H33×L31.5mm]	[W40×H60×L17mm]	[W60×H96×L17mm]	
Input method	D□□□S: Serial				
	D□□□P: Parallel (dynamic Parallel 1, dynamic Parallel 2)				
	D□□□T: RS485 communication (modbus protocol)				
Display color	Red, Green (selectable by model)				
Power supply	12-24VDC				
Allowable voltage range	90 to 110% of rated voltage				
Current consumption	Red	Max. 20mA	Max. 25mA	Max. 55mA	Max. 65mA
	Green	Max. 15mA	Max. 20mA	Max. 40mA	Max. 45mA
Character size	W9×H16mm	W11.2×H22.5mm	W22.4×H40mm	W33.6×H60mm	
Max. Clock ^{※1, ※2}	<ul style="list-style-type: none"> Serial input: Max. 2kHz Parallel input: Dynamic Parallel 1: Max. 3kHz, Dynamic Parallel 2: Max. 1.5kHz 				
Input logic ^{※1}	Selectable positive logic (PNP) or negative logic (NPN) (change by the function set switch)				
Input resistance ^{※1}	20kΩ				
Input level ^{※1}	High: 4.5-24VDC, Low: 0-1.2VDC				
Display character	64 characters and signs (0 to 9, A to Z, 27 symbols, decimal point)				
The number of max. multi-stage connections	Serial / RS485 comm. input: 24 units				
	Parallel input: Dynamic Parallel 1: 6 units (4-bit), 4 units (6-bit), Dynamic Parallel 2: 24 units (6-bit)				
Reference	N-5 to 26				

※1: It is only for Serial, Parallel input models.

※2: Max. Clock is for 1:1 of duty ratio (ON, OFF ratio).




Intelligent Display Unit - RS485 synchronous communication type for time display

Model	Basic unit	DS22-□C	DS40-□C	DS60-□C
	Expansion unit	D□22-□E	D□40-□E	D□60-□E
Appearances & Dimensions				
	[W20×H33×L31.5mm]	[W40×H60×L17mm]	[W60×H96×L17mm]	
Input method	RS485 communication (modbus protocol)			
Display color	Red, Green (selectable by model)			
Power supply	12-24VDC			
Allowable voltage range	90 to 110% of rated voltage			
Current consumption	Red	Max. 25mA	Max. 55mA	Max. 65mA
	Green	Max. 20mA	Max. 40mA	Max. 45mA
Character size	W11.2×H22.5mm	W22.4×H40mm	W33.6×H60mm	
Time display	World local time, 12/24-hour, summer time supported			
The number of max. multi-stage connections	10 units			
Reference	N-5 to 26			

※1: Use 16-segment expansion unit for displaying delimiter for hour/min./sec. and 'M' character for AM/PM.




Product Overview

Intelligent Display Unit - Pt temp. sensor input / Pt temp. sensor input + RS485 comm. output type

Model	Basic unit	DS22-RR	DS40-RR/RRT	DS60-RR/RRT
	Expansion unit	DS22-RE	DS40-RE	DS60-RE
Appearances & Dimensions	CE			
		[W20×H33×L31.5mm]	[W40×H60×L17mm]	[W60×H96×L17mm]
Input method	Pt temp. sensor input (supports DPT100Ω, JPt 100Ω)			
Display color	Red			
Power supply	12-24VDC			
Allowable voltage range	90 to 110% of rated voltage			
Current consumption	Max. 40mA	Max. 55mA	Max. 65mA	
Character size	W11.2×H22.5mm	W22.4×H40mm	W33.6×H60mm	
Display temp. range	-50.0 to 400.0°C or -58.0 to 752.0°F			
Display accuracy	F.S.±0.5%			
Output	—		RS485 comm. output (modbus RTU) ^{※1}	
The number of max. multi-stage connections	4 units (except unit-display unit)			
Reference	N-5 to 26			

※1: RS485 comm. output supports only DS40-RRT, DS60-RRT models.

Display Unit

Model	D1SC-N	D1SA-RN	D1SA-GN	D1AA-RN	D1AA-GN
Appearances & Dimensions					
	[W72×H96×L25.7mm]	[W20×H33×L54mm]		[W20×H33×L54mm]	
Character size	W32×H57mm	W11×H22mm			
Power supply	12-24VDC				
Allowable voltage range	90 to 110% of rated voltage				
Current consumption	Max. 70mA	Max. 35mA		Max. 32mA	
Display method	7-segment LED display (red)	7-segment LED display (red)	7-segment LED display (green)	16-segment LED display (red)	16-segment LED display (green)
Display character	<ul style="list-style-type: none"> Decimal number: 0 to 9, decimal point, Minus^{※1} Hexadecimal number: 0 to 9, A to F, decimal point 			0 to 9, A to Z, decimal point, 24 symbols	
Max. Clock	Max. 3kHz				
Input	<ul style="list-style-type: none"> Parallel: Parallel 4-bit data, latch, zero blanking, decimal point Serial: Serial 4-bit or 5-bit data, clock, zero blanking, latch, decimal point (for 4-bit input) 			<ul style="list-style-type: none"> Parallel: Parallel 6-bit data, latch, decimal point Serial: Serial 6-bit or 7-bit data, clock, latch, decimal point (for 6-bit input) 	
Output	Data output (serial input), zero blanking output			Data output (serial input)	
Input logic	Selectable positive logic (PNP) or negative logic (NPN) (by the function set switch)	Selectable positive (PNP) or negative (NPN) (by inner soldering)			
Input level	High: 4.5-24VDC, Low: 0-1.2VDC				
Input resistance	12kΩ	20kΩ			
Reference	N-27 to 34			N-35 to 40	

※1: Minus display is available only D1SC-N.

※Max. Clock is for 1:1 of duty ratio (ON, OFF ratio).

(A) Photoelectric Sensors

(B) Fiber Optic Sensors

(C) Door/Area Sensors

(D) Proximity Sensors

(E) Pressure Sensors

(F) Rotary Encoders

(G) Connectors/ Connector Cables/ Sensor Distribution Boxes/Sockets

(H) Temperature Controllers

(I) SSRs / Power Controllers

(J) Counters

(K) Timers

(L) Panel Meters

(M) Tacho / Speed / Pulse Meters

(N) Display Units

(O) Sensor Controllers

(P) Switching Mode Power Supplies

(Q) Stepper Motors & Drivers & Controllers



(R) Graphic/ Logic Panels

(S) Field Network Devices

(T) Software

Product Overview

Panel Mount Type, 5-Digit Display Unit

Model	D5Y-M	D5W-M	D5W-MX
Appearances & Dimensions	 [W72×H36×L91mm]	 [W96×H48×L99.5mm]	
Character size	W8×H14mm		
Power supply	12-24VDC		110/220VAC 50/60Hz
Allowable voltage range	90 to 110% of rated voltage		
Power consumption	Max. 1.1W		Max. 2VA
Display method	7-segment LED display (red)		
Display character	0 to 9, decimal point, Minus (for serial input)		
Max. Clock	100Hz to 5kHz		
Input method	Static, Dynamic, 4/5-bit serial, Serial (16/20/25-bit)		
Input logic	Selectable positive logic (PNP) or negative logic (NPN)		
Input level	High: 5-24VDC, Low: 0-1.2VDC		
Input resistance	22kΩ		
Reference	N-41 to 48		

※Max. Clock is for 1:1 of duty ratio (ON, OFF ratio).