

High-end specifications realize smooth

and accurate operation.

General Specifications

Item	V9 Advanced		V9 Standard			
	V9101iW	V9071iW	V9150iX	V9150iXD	V9120iS	V9120iSD
Power supply	Rated voltage		24V DC			
	Permissible range of voltage		±10%			
Insulation resistance			DC500V 10MΩ or more			
Physical environment	Ambient temperature		0~50°C ^{*1}			
	Ambient humidity		85%RH or less (without dew condensation) ^{*1}			
	Operation altitude		2,000 meters or lower			
	Atmosphere		Not to be exposed to corrosive gas, or conductive dust			
	Storage temperature		-10~60°C ^{*1}			
	Storage humidity		85%RH or less (without dew condensation) ^{*1}			
Contamination level		Level 2				
Mechanical operating conditions	Resistance to oscillation		Complies with JIS B 3502 (IEC61131-2) Vibration frequency: 5~9Hz, pulsating with:3.5mm, Vibration frequency: 5~9Hz, half amplitude: 3.5mm, vibration frequency: 9~150Hz, constant acceleration: 9.8m/s ² (1G), X, Y, Z: 3 directions (10 times each)			
	Resistance to shock		Complies with JIS B 3502 (IEC61131-2) Peak acceleration: 147m/s ² (15G), X,Y,Z: 3 directions, three times each (18 times in total)			
Electric operating conditions	Resistance to noise		Noise voltage:1,000Vp-p, pulse width:1μs, pulse rise time : 1ns			
	Resistance to static Discharge		Complies with IEC61000-4-2, contact: 6kV, air: 8kV			
Installation conditions	Grounding		Grounding resistance: Less than 100Ω, FG/SG separation		Grounding resistance: Less than 100Ω, FG=SG	
	Structure		Protect structure: Front case: IP66 (when water-proof gasket is used), Rear case: IP20, single unit, installation method: panel mounting			
	Cooling system		Natural air cooling			
	Dimensions W×H×D (mm)		278.5×198.5×54.4		201.6×147.6×60.3	
Panel cutout (mm)		257.0×183.0(+0.5/-0)		187.2×133.4(+0.5/-0)		
Case color		Light gray		-		
Material		PC		Front case: Aluminum, Rear case: PC resin		

*1: Wet-bulb temperature should be 39°C or lower to prevent malfunction.

V9 Standard			V9 Lite			
V9100iS	V9100iSD	V9080iSD	V9100iC	V9100iCD	V9080iCD	V9060iTD
100-240V AC			100-240V AC			
-15%,+10%			-15%,+10%			
±10%			±10%			
DC500V 10MΩ or more			DC500V 10MΩ or more			
0~50°C ^{*1}			0~50°C ^{*1}			
85%RH or less (without dew condensation) ^{*1}			85%RH or less (without dew condensation) ^{*1}			
2,000 meters or lower			2,000 meters or lower			
Not to be exposed to corrosive gas, or conductive dust			Not to be exposed to corrosive gas, or conductive dust			
-10~60°C ^{*1}			-10~60°C ^{*1}			
85%RH or less (without dew condensation) ^{*1}			85%RH or less (without dew condensation) ^{*1}			
Level 2			Level 2			
Complies with JIS B 3502 (IEC61131-2) Vibration frequency: 5~9Hz, pulsating with:3.5mm, Vibration frequency: 5~9Hz, pulsating width: 3.5mm, acceleration: 9.8m/s ² (1G), X, Y, Z: 3 directions (10 times each)			Complies with JIS B 3502 (IEC61131-2) Vibration frequency: 5~9Hz, pulsating with:3.5mm, Vibration frequency: 5~9Hz, pulsating width: 3.5mm, acceleration: 9.8m/s ² (1G), X, Y, Z: 3 directions (10 times each)			
Complies with JIS B 3502 (IEC61131-2) Peak acceleration: 147m/s ² (15G), X,Y,Z: 3 directions, three times each (18 times in total)			Complies with JIS B 3502 (IEC61131-2) Peak acceleration: 147m/s ² (15G), X,Y,Z: 3 directions, three times each (18 times in total)			
Noise voltage: 1,000Vp-p, pulse width: 1μs, pulse rise time: 1ns			Noise voltage: 1,000Vp-p, pulse width: 1μs, pulse rise time: 1ns			
Complies with IEC61000-4-2, contact: 6kV, air: 8kV			Complies with IEC61000-4-2, contact: 6kV, air: 8kV			
Grounding resistance: Less than 100Ω, FG/SG separation			Grounding resistance: Less than 100Ω, FG/SG separation			
Protect structure: Front case: IP66 (when water-proof gasket is used), Rear case: IP20, single unit, installation method: panel mounting			Protect structure: Front case: IP66 (when water-proof gasket is used), Rear case: IP20, single unit, installation method: panel mounting			
Natural air cooling			Natural air cooling			
303.8×231.0×54.0		235.0×180.0×48.9		303.8×231.0×54.0		235.0×180.0×48.9
289.0×216.2(+0.5/-0)		220.5×165.5(+0.5/-0)		289.0×216.2(+0.5/-0)		220.5×165.5(+0.5/-0)
Light gray			Light gray			
PC			PC			

Performance Specifications

Item	V9 Advanced		V9 Standard	
	V9101iW	V9071iW	V9150iX	V9120iS
Screen memory (FROM)	64MB			
Backup memory (SRAM)	800KB			
Display	Display device		TFT color LCD	
	Resolution		1024×600	
	Display size		10.1" Wide	
	Colors		16.7 million ^{*2}	
	Backlight		LED	
Touch switch	Type		Capacitance	
	Quantity		None	
Function switch	Type		Analog resistance film	
	Quantity		8	
External interface	D-Sub 9-pin (CN1) ^{*3}		RS-232C/ RS-422/485, Asynchronous type, Data length: 7,8 bits, Parity: even, odd, none, Stop bit: 1, 2 bits, Baud rate: 4800, 9600, 19200, 38400, 57600, 76800, 115200,187500*bps	
	Modular 8-pin (MJ1/ MJ2)		RS-232C/ RS-422/ RS-485 (two-wire system), ^{*3} Asynchronous type, Data length: 7,8 bits, Parity: even, odd, none, Stop bit: 1, 2 bits, Baud rate: 4800, 9600, 19200, 38400, 57600, 76800, 115200 bps	
	SD card		One card slot provided as standard	
	Ethernet		2ch, Baud rate: 100Mbps, 10Mbps	
	Wireless LAN		Complies with IEEE802.11b/g/n (2.4GHz) ^{*5}	
	USB		Type A, Type mini-B (Ver.2.0)	
Clock	Sound output		1ch provided as standard	
	Backup period		5 years (Ambient temperature 25°C)	
Standard	Calendar accuracy		Gap ±90 sec. per month (Ambient temperature 25°C, When the battery is backed up)	
	CE marking ^{*7}		EN61000-6-2, EN61000-6-4	
	UL-cUL ^{*7}		UL508	
	KC		Compliant	
Radio Act ^{*6}		Japan: TELEC USA: FCC Canada: IC RSS		

*2: Only for pictures, 3D parts and videos. Other items are displayed in 65,536 colors. *3: Optional unit (DUR-00) is required for the V9071iW and V9060iTD. *4: Only for Siemens MPI (Incompatible with DUR-00). *5: 187,500bps (four-wire system) for the V9071iW and V9060iTD MJ2 only. *6: Wireless LAN-compatible products only. *7: DC products only.

V9 Standard		V9 Lite		
V9100iS	V9080iSD	V9100iC	V9080iCD	V9060iTD
64MB		64MB		
800KB		800KB		
TFT color LCD		TFT color LCD		
800×600		640×480		
10.4"		8.4"		
16.7 million ^{*2}		260,000 ^{*2}		
LED		LED		
70,000 hours		50,000 hours		
Analog resistance film		Analog resistance film		
8		6		
RS-232C/ RS-422/485, Asynchronous type, Data length: 7,8 bits, Parity: even, odd, none, Stop bit: 1, 2 bits, Baud rate: 4800, 9600, 19200, 38400, 57600, 76800, 115200,187500*bps		RS-232C/ RS-422/485, Asynchronous type, Data length: 7,8 bits, Parity: even, odd, none, Stop bit: 1, 2 bits, Baud rate: 4800, 9600, 19200, 38400, 57600, 76800, 115200,187500*bps		
RS-232C/ RS-422/ RS-485 (two-wire system), ^{*5} Asynchronous type, Data length: 7,8 bits, Parity: even, odd, none, Stop bit: 1, 2 bits, Baud rate: 4800, 9600, 19200, 38400, 57600, 76800, 115200 bps		RS-232C/ RS-422/ RS-485 (two-wire system), ^{*5} Asynchronous type, Data length: 7,8 bits, Parity: even, odd, none, Stop bit: 1, 2 bits, Baud rate: 4800, 9600, 19200, 38400, 57600, 76800, 115200 bps		
One card slot provided as standard		One card slot provided as standard		
1ch, Baud rate: 100Mbps, 10Mbps		1ch, Baud rate: 100Mbps, 10Mbps		
-		-		
Type A, Type mini-B (Ver.2.0)		Type A, Type mini-B (Ver.2.0)		
1ch provided as standard		-		
5 years (Ambient temperature 25°C)		5 years (Ambient temperature 25°C)		
Gap ±90 sec. per month (Ambient temperature 25°C, When the battery is backed up)		Gap ±90 sec. per month (Ambient temperature 25°C, When the battery is backed up)		
EN61000-6-2, EN61000-6-4		EN61000-6-2, EN61000-6-4		
UL508		UL508		
Compliant		Compliant		
-		-		