

Item		V1012iS
Power Supply	Rated Voltage	100~240V AC
	Permissible Range of Voltage	-15%, +10%
	Permissible Momentary Power Failure	Within 20ms (100VAC or higher)
	Power Consumption (Max. Rating)	53VA or less
	Rush Current	48A or less, 3ms (Ambient temperature 25°C)
Insulation Resistance		Between AC external terminal and FG: 500V DC, 10MΩ or more Between DC external terminal and FG: 500V DC, 10MΩ or more
Physical Environment	Operating Ambient Temperature	0~50°C *1
	Operating Ambient Humidity	85%RH or less (without dew condensation, max. wet-bulb temperature 39°C or lower)
	Operating Altitude	2,000m or less
	Operating Atmosphere	No exposure to corrosive gas or conductive dust
	Storage Ambient Temperature	-10~60°C *1
	Storage Ambient Humidity	85%RH or less (without dew condensation, max. wet-bulb temperature 39°C or lower) *1
	Pollution Degree	2
Mechanical Operating Conditions	Resistance to Oscillation	JIS B 3502 (IEC61131-2) compliant Vibration frequency 5 to 9Hz, Half amplitude: 3.5mm, 9 to 150Hz, Constant acceleration: 9.8m/s <sup>2</sup> (1G) X, Y, Z 3 directions 10 times each
	Resistance to Shock	JIS B 3502 (IEC61131-2) compliant Peak acceleration: 147m/s <sup>2</sup> (15G), X,Y,Z 3 directions, 3 times each (18 times in total)
Electric Operating Conditions	Resistance to Noise	Noise voltage: 1,500Vp-p, pulse width: 1μs, pulse rise time: 1ns (by noise simulator)
	Resistance to Static Discharge	IEC61000-4-2 compliant, Contact: 6kV, air: 8kV
Installation Conditions	Grounding	Grounding resistance: Less than 100Ω, FG/SG separation
	Structure	Protection structure: Front case: IP66, Type 4X/13 *2 (when water-proof gasket is used), Rear case: IP20 Installation method: panel mounting
	Cooling System	Natural air cooling
	Dimensions W*H*D (mm)	327.8×261.0×53.4
	Panel Cutout W*H (mm)	313.0(+0.5/-0)×246.2(+0.5/-0)
	Weight (Display Only)	Approx. 2.6kg
Case	Color	Front case, Surface sheet: Light gray / Black (black model) Rear case: Light gray
	Material	PBT+GF30 resin

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Screen Memory (FROM)		256MB
Backup Memory (SRAM)		900KB
Display	Display Device	TFT color
	Resolution	800×600
	Display Size	12.1 inches
	Backligh	16.77 million colors <sup>*3</sup>
	Backlight Life	Approx. 70,000 hours
Touch Switch	Type	Analog resistance film
Function Switch	Quantity	8
External Interface	D-Sub 9-pin (CN1)	RS-232C/RS-422/RS-485 Asynchronous, Data length: 7, 8 bits Parity: Even, odd, none Stop bit: 1, 2 bits Baud rate: 4800, 9600, 19200, 38400, 57600, 76800, 115200, 187500*4 bps
	Modular 8-pin (MJ1/MJ2)	RS-232C/RS-485 (2-wire type) Asynchronous, Data length: 7, 8 bits Parity: Even, odd, none Stop bit: 1, 2 bits Baud rate: 4800, 9600, 19200, 38400, 57600, 76800, 115200 bps
	Ethernet	1CH *5 IEEE802.3(10BASE-T)/IEEE802.3u(100BASE-TX)/ IEEE802.3ab(1000BASE-T) compliant, Compatible with Auto-MDIX
	Wireless LAN <sup>*6</sup>	IEEE802.11b/g/n compliant (2.4GHz band)
	SD Card	Compatible with 1CH SD/SDHC/SDXC card (max. 2TB), Class10, UHS-I
	USB	Type A(Ver.3.0) 1CH, Type mini-B(Ver.2.0) 1CH
	Sound Output	1CH
Clock	Backup Period	5 years (Ambient temperature 25°C)
	Calendar Accuracy	Gap ±90 sec. per month (Ambient temperature 25°C, When the battery is backed up)
Standard	CE UKCA <sup>*7</sup>	EN61000-6-2, EN61000-6-4
	UL cUL <sup>*7</sup>	UL61010-1/UL61010-2-201(E313548), ANSI/ISA12.12.01 *8
	KC	Compatible
	Radio Act <sup>*6 *7</sup>	MIC(Japan), FCC(USA), ISED(Canada), RE/UKCA(Europe), KC(South Korea)
	Classification Standard <sup>*7 *8 *10</sup>	Nippon Kaiji Kyokai (NK), Lloyd's Register of Shipping (LR), American Bureau of Shipping (ABS), Det Norske Veritas (DNV)

\*1 Use at a wet-bulb temperature of 39°C or less because higher temperatures may cause failure. \*2 DC products only. \*3 For displaying pictures, 3D parts, video, and RGB input (excluding high-speed mode) only. Other parts are displayed in 65,536 colors. \*4 Only for Siemens MPI \*5 2CH for extended wired LAN products \*6 Wireless LAN compatible products only \*7 DC products only. \*8 Scheduled to be compliant in June 2023 \*9 Excluding wireless LAN compatible products \*10 Scheduled to be compliant in October 2023