

Programmable Operator Interface

MONITOUCH

The new standard for high speed HMI



MONITOUCH

Realizing smooth, stress-free operation with functions required for HMI MONITOUCH V10



The chief reason to select the V10 series is its overwhelming performance against competitors.

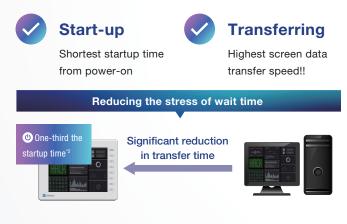


Industry best performance

In addition to benchmarking HMIs from all over the world, we thoroughly analyzed how they were used in the field, and achieved industry-leading performance in six aspects (rendering, operation, startup, communication, transfer and custom code).



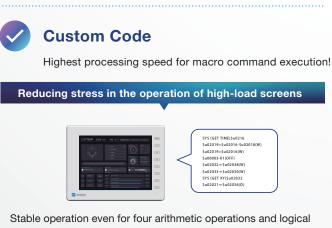
Smooth screen switching and continuous operation



Reducing the wait time for startup and screen transfer



Smooth operation even with multiple devices connected for multi-point logging



operation in multiple lines, comparison and transfer

Minimal development cost in HMI replacement!



Colors

3ch

V-SFT Ver. 6

A/mini B

Just select the V10 series in the model setting. Any screen data of the previous model is automatically converted to the V10 series.





Option

Option



SVGA

Panel Cutout



V9 series

Panel cutout dimensions are the same for all models.



V10 series



Communication Units

Option

Communication units are fully compatible! Communication units (CUR-xx) for V9 series can be used.



^{*4} Expansion units (Video/RGB) are under development, scheduled to be released in April 2024

03

^{*1} Comparison with currently available products of the world's major HMI manufacturers using our sample screen programs (according to our own research)

^{*2} Comparison with V9 series using our sample screen programs (according to our own research)

Advantages to use the V10 series

Operation / Communication

High-speed processing of quad-core CPU allows for stable operation and communication performance even on high-load screens!

Start-up /

Advanced storage device (eMMC) reduced startup/transfer time and man-hours!



Panel cutout size and functions Fully compatible with existing V series!



Benefits for every department!







Maintenance Engineer

Designer

Reduced wait time for start-up and screen data transfer!

Reduced debugging time for system updates thanks to full compatibilities with previous models!

Operator

Reduced start-up wait time

Identical panel cutout size allows for easy updating from existing

Smooth setup and operation is now possible!

Smooth screen switching enables quick location of the error source when troubleshooting.

Model





15.0 inches V1015iS





12.1 inches V1012iS







10.4 inches V1010iS





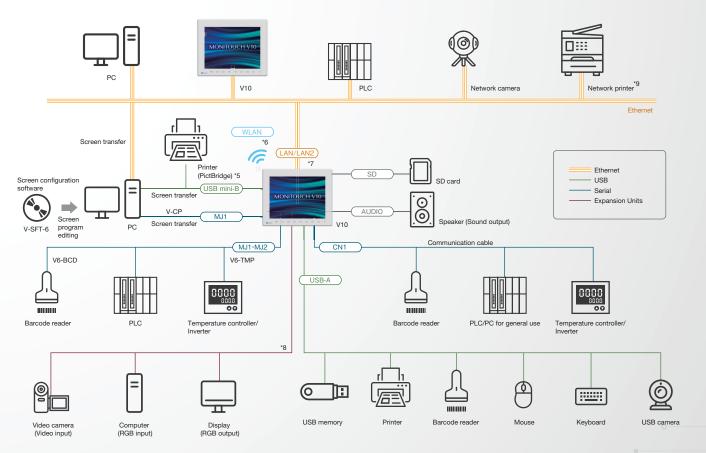


Product Details

	Specifications				External Interface			Standard				0	Delivery			
Model	Display Size	Resolution	Touch Screen	Case Color	Power Supply	Video/RGB*1	AUDIO Output	Wireless LAN	Extended Wired LAN		CE/UKCA		ANSI/ISA*2	Radio Act	Classification Standard ^{*3}	Standard: ✓ Made to order: △
V1015iS					AC	✓	✓	_	_	_	_	✓	_	_	_	✓
V1015iSD				Limbs man		✓	✓	_	_	✓	✓	✓	✓	_	✓	✓
V1015iSLD			024 Analog × resistance	Light gray	DC	✓	✓	_	✓	✓	✓	✓	✓	_	✓	Δ
V1015iSRD	15.0	5.0 1024				✓	✓	✓	_	✓	✓	✓	✓	✓	_	Δ
V1015iSB	inches	768			AC	✓	✓	_	_	_	_	✓	_	_	_	Δ
V1015iSBD				Black*4		✓	✓	_	_	✓	✓	✓	✓	_	✓	Δ
V1015iSLBD				Black	DC	✓	✓	_	✓	✓	✓	✓	✓	_	✓	Δ
V1015iSRBD						✓	✓	✓	_	✓	✓	✓	✓	✓	_	Δ
V1012iS					AC	✓	✓	_	_	_	_	✓	_	_	_	✓
V1012iSD				Light gray		✓	✓	_	_	✓	✓	✓	✓	_	✓	✓
V1012iSLD				Ligiti gray	DC	✓	✓	_	✓	✓	✓	✓	✓	_	✓	Δ
V1012iSRD	12.1	800				✓	✓	✓	_	✓	✓	✓	✓	✓	_	Δ
V1012iSB	inches	× 600	film	Black*4	AC	✓	✓	_	_	_	_	✓	_	_	_	Δ
V1012iSBD					DC	✓	✓	_	_	✓	✓	✓	✓	_	✓	Δ
V1012iSLBD						✓	✓	_	✓	✓	✓	✓	✓	_	✓	Δ
V1012iSRBD						✓	✓	✓	_	✓	✓	✓	✓	✓	_	Δ
V1010iS					AC	✓	✓	_	_	_	_	✓	_	_	_	✓
V1010iSD				Light gray	ay DC	✓	✓	_	_	✓	✓	✓	✓	_	✓	✓
V1010iSLD				Ligiti gray		✓	✓	_	✓	✓	✓	✓	✓	_	✓	Δ
V1010iSRD	10.4	800	x resistance			✓	✓	✓	_	✓	✓	✓	✓	✓	_	Δ
V1010iSB	inches	600		Black*4	AC	✓	✓	_	_	_	_	✓	_	_	_	Δ
V1010iSBD					DC	✓	✓	_	_	✓	✓	✓	✓	_	✓	Δ
V1010iSLBD						✓	✓	_	✓	✓	✓	✓	✓	_	✓	Δ
V1010iSRBD						✓	✓	✓	_	✓	✓	✓	✓	✓	_	Δ
V1008iSD						✓	✓	_	_	✓	✓	✓	✓	_	✓	✓
V1008iSLD		800	x resistance	Light gray		✓	✓	_	✓	✓	✓	✓	✓	_	✓	Δ
V1008iSRD	8.4				DC	✓	✓	✓	_	✓	✓	✓	✓	✓	_	Δ
V1008iSBD	inches	600				✓	✓	_	_	✓	✓	✓	✓	_	✓	Δ
V1008iSLBD						✓	✓	_	✓	✓	✓	✓	✓	_	✓	Δ
V1008iSRBD						✓	✓	✓	_	✓	✓	✓	✓	✓	_	Δ

^{*1} Compatible with expansion units under development (Scheduled for release in April 2024) *2 Scheduled to be compliant in June 2023 *3 Scheduled to be compliant in October 2023 *4 The rear case is light gray

System Configuration



- *5 Scheduled to be available in October 2023 6 Wireless LAN compatible products only
- *7 LAN2 is available only in products with extended wired LAN
- *8 Compatible with expansion units under development (Scheduled for release in April 2024)
 *9 Compatible with EPSON ESC/P-R, HP HPLIP only. Wireless LAN connection is possible for wireless LAN compatible products.

General Specifications

	-0									
It	em	V1015iS	V1015iSD	V1012iS	V1012iSD	V1010iS	V1010iSD	V1008iSD		
	Rated Voltage	100~240V AC	24V DC	100~240V AC	24V DC	100~240V AC	24V DC	DC24V		
	Permissible Range of Voltage	-15%, +10%	±10%	-15%, +10%	±10%	-15%, +10%	±10%	±10%		
Power	Permissible Momentary Power Failure	Within 20ms (100VAC or higher)	Within 1ms	Within 20ms (100VAC or higher)	Within 1ms	Within 20ms (100V AC or higher)	Within 1ms	Within 1ms		
Supply	Power Consumption (Max. Rating)	76VA or less	38W or less	53VA or less	25W or less	60VA or less	27W or less	25W or less		
	Rush Current	56A or less, 3ms (Ambient temperture 25°C)	29A or less, 12ms (Ambient temperature 25°C)	48A or less, 3ms (Ambient temperature 25°C)	23A or less, 5ms (Ambient temperature 25°C)	43A or less, 3ms (Ambient temperature 25°C)	25A or less, 5ms (Ambient temperature 25°C)	21A or less, 6ms (Ambient temperature 25°C)		
Insulation Re	sistance	Betwe	en AC external terminal	and FG: 500V DC, 10MΩ	or more Between DC	external terminal and Fe	G: 500V DC, 10MΩ or mo	ore		
	Operating Ambient Temperature	0~4	0°C *1			0~50°C*1				
	Operating Ambient Humidity		85%RF	or less (without dew co	ndensation, max. wet-bu	ulb temperature 39°C or	lower)*1			
	Operating Altitude			2,000m or less						
Physical Environment	Operating Atmosphere		No exposure to corrosive gas or conductive dust							
Environment	Storage Ambient Temperature	-10~	50°C*1	-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	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/s² (1G) X, Y, Z 3 directions 10 times each								
Operating Conditions	Resistance to Shock	JIS B 3502 (IEC61131-2) compliant Peak acceleration: 147m/s² (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)	Noise voltage:1,000Vp-p, pulse width:1µs, pulse rise time : 1ns (by noise simulator)	Noise voltage: 1,500Vp-p, pulse width: 1µs, pulse rise time: 1ns (by noise simulator)						
Conditions	Resistance to Static Discharge	IEC61000-4-2 compliant, Contact: 6kV, air: 8kV								
	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								
Installation	Cooling System			Natural air cooling						
Conditions	Dimensions W*H*D (mm)	382.8×3	12.8×79.2	327.8×20	61.0×53.4	303.8×2	31.0×53.8	235.0×180.0×48.7		
	Panel Cutout W*H (mm)	369.4(+0.5/-0)	×299.4(+0.5/-0)	313.0(+0.5/-0)	×246.2(+0.5/-0)	289.0(+0.5/-0)	×216.2(+0.5/-0)	220.5(+0.5/-0)× 165.5(+0.5/-0)		
	Weight (display only)	Approx. 3.7kg		Approx	x. 2.6kg Appro		x. 2.1kg	Approx. 1.4kg		

Front case, Surface sheet: Light gray / Black (black model) Rear case: Light gray

PBT+GF30 resin

Performance Specifications

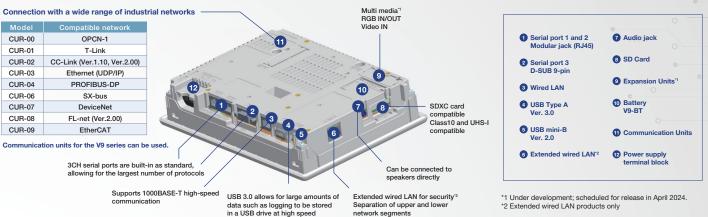
Color Material

Item Screen Memory (FROM) Backup Memory (SRAM)			V10	Standard					
		V1015iS	V1012iS	V1010iS	V1008iS				
		256MB							
			9	900KB					
	Display Device	TFT color							
	Resolution	1024×768	1024×768 800×600						
Display	Display Size	15.0 inches	12.1 inches	10.4 inches	8.4 inches				
Display	Display Colors	16.77 million colors ¹³							
	Backlight	LED							
	Backlight Life	Approx. 100,000 hours Approx. 70,000 hours							
Touch Switch	Туре		Analog resistance film						
Function Switch	Quantity	8							
	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							
External Interface	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							
External interlace	Ethernet	1CH *5 IEEE802.3(10BASE-T)/IEEE802.3u(100BASE-TX)/IEEE802.3ab(1000BASE-T) compliant, Compatible with Auto-MDIX							
	Wireless LAN *6	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 (Ambie	nt temperature 25°C)					
Clock	Calendar Accuracy	Gap ±90 sec. per month (Ambient temperature 25°C, When the battery is backed up)							
	CE·UKCA*7		EN61000-6	i-2, EN61000-6-4					
	UL·cUL*7		UL61010-1/UL61010-2-20	1(E313548), ANSI/ISA12.12.01 *8					
Standard	KC	Compatible							
	Radio Act *6 *7	MIC(Japan), FCC(USA), ISED(Canada), RE/UKCA(Europe), KC(South Korea)							
	Classification Standard *7 *9 *10	Nippon Kajii Kvokaj (Ni	K). Lloyd's Register of Shipping (LR), American Bureau of Shipping (ABS), Det	Norske Veritas (DNV)				

*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

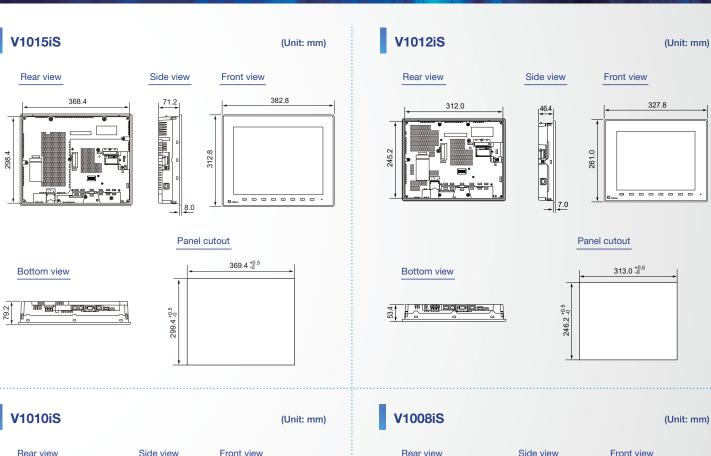
*7 DC products only. *8 Scheduled to be compliant in June 2023 *9 Excluding wireless LAN compatible products *10 Scheduled to be compliant in October 2023

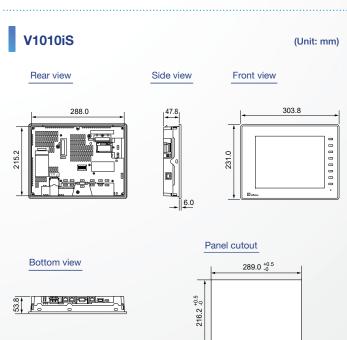
Interface

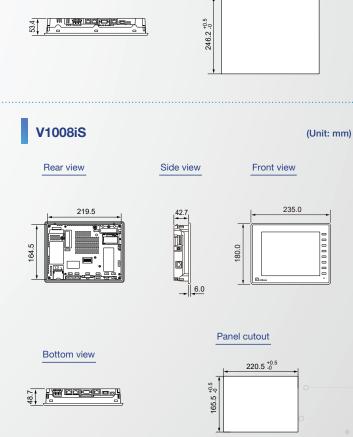


Separation of upper and lower

Dimensions







^{*1} Use at a wet-bulb temperature of 39°C or less because higher temperatures may cause failure.
*2 DC products only.

Achieve sleeker screens with simple, easy-to-understand operations



Reduction of screen data transfer time

Modification and improvement of the transfer process has reduced the transfer time of screen data

The significant reduction of time for repetitive transfer during design debugging etc. contributes to the reduction of design and maintenance man-hours.

Computer	PC/AT compatible computer for Windows
OS *2 *3	Vista(32bit, 64bit)/7(32bit, 64bit)/8(32bit, 64bit)/ 8.1(32bit, 64bit)/10(32bit, 64bit)/11(64bit)
СРИ	Pentium 4 2.0 GHz or above recommended
Memory	1 GB or above (2 GB or above recommended)
Hard Disk	When installed: 4.0 GB or above

Disk Drive	DVD-ROM drive
Display	Resolution 1024 x 768 (XGA) or above recommended
Display Colors	High color (16-bit) or above
Others	Microsoft .NET Framework 4.0 or 4.5 (If a PC does not have .NET Framework 4.0 or 4.5, Framework 4.0 will automatically be installed on the PC.)

^{*1} The V10 series is compatible with Ver.6.2.0.0 and later. *2 Administrator privileges are required for installation.

Optional Accessories List

			V10 Standard		
Model	Product	V1015iS	V1012iS	V1010iS	V1008iS
Configuration Software					
V-SFT-6	MONITOUCH screen configuration software Ver.6	✓	✓	✓	✓
Communication Units					·
CUR-00	OPCN-1 (V10/V9/TS2060i)	✓	✓	✓	✓
CUR-01	T-Link (V10/V9/TS2060i)	✓	✓	✓	✓
CUR-02	CC-Link (V10/V9/TS2060i)	✓	✓	✓	✓
CUR-03	Ethernet (V10/V9/TS2060i)	√	✓	✓	✓
CUR-04	PROFIBUS-DP (V10/V9/TS2060i)	√	✓	✓	✓
CUR-06	SX-bus (V10/V9/TS2060i)	✓	✓	√	✓
CUR-07	DeviceNet (V10/V9/TS2060i)	√	✓	✓	
CUR-08	FL-net (V10/V9/TS2060i)	✓	✓	✓	
CUR-09	EtherCAT (V10/V9)	✓	✓	✓	✓ ·
Cables *1	Ethoroxx (v10, v0)	<u> </u>	•	· ·	
V-CP	Screen transfer cable (3m)	√	✓	√	
		√	√	√	· · ·
UA-FR	USB-A extension cable (1m)	√	√	√	√
V6-MLT	Multi-link 2 master cable (3m)				
V6-TMP	Temperature controller cable (3m)	√	√	√	√
V6-TMP-5M	Temperature controller cable (5m)	√	√	√	√
V6-TMP-10M	Temperature controller cable (10m)	✓ ·	✓	√	√
V6-BCD	Barcode reader cable (3m)	✓	✓	✓	✓
D9-FU-SPBCPU-2M	Fuji Electric	√	✓	✓	✓
D9-FU-SPBCPU-3M	SPH ⁻² , SPB CPU (RJ45) RS-485 (4-cable type)	✓	✓	✓	√
D9-FU-SPBCPU-5M	Sirin, of Bion of (none) no not type)	✓	✓	✓	✓
D9-FU-SPFCPU-2M	Fuji Electric	✓	✓	✓	✓
D9-FU-SPFCPU-3M	SPF CPU (Mini DIN4) RS-232C	✓	✓	✓	✓
D9-FU-SPFCPU-5M	01 1 01 0 (Will Birth) 110 2020	✓	✓	✓	✓
D9-MB-CPUQ-2M		✓	✓	✓	✓
D9-MB-CPUQ-3M	MITSUBISHI ELECTRIC	✓	✓	✓	✓
D9-MB-CPUQ-5M		✓	✓	✓	✓
D9-MB-CPUQ-10M	A series / QnA series CPU (Dsub25) RS-422	✓	✓	✓	✓
D9-MB-CPUQ-15M		✓	✓	✓	✓
D9-QCPU2-2M		✓	✓	✓	✓
D9-QCPU2-3M		✓	✓	✓	✓
D9-QCPU2-5M	MITSUBISHI ELECTRIC	✓	✓	✓	✓
D9-QCPU2-10M	Q series CPU (Mini DIN6) RS-232C	√	✓	✓	✓
D9-QCPU2-15M	_	√	✓	√	✓
D9-MI2-09-2M		✓	✓	✓	√
D9-MI2-09-3M	_	✓	✓	✓	
D9-MI2-09-5M	MITSUBISHI ELECTRIC	✓	√	✓	
D9-MI2-09-10M	link unit (Dsub9) RS-232C	✓	✓	✓	√
D9-MI2-09-15M		√ ·	✓	· ·	
		√	√	√	√
D9-MI4-FX-2M	_				
D9-MI4-FX-3M	MITSUBISHI ELECTRIC	✓ ✓	✓ ✓	✓ ✓	✓ ✓
D9-MI4-FX-5M	FX series CPU (Mini DIN8) RS-422				
D9-MI4-FX-10M	-	√	√	√	√
D9-MI4-FX-15M	B 10 B 105	√	√	√	√
D9-D25	Dsub9-Dsub25 conversion cable (0.3m)	√	✓	✓	
Serial Expansion I/O Unit				I	1
V-I/O	Serial expansion I/O unit for V10/V9	√	✓	✓	✓
Communication Terminal Blo					
TC-D9	Terminal converter for V10/V9/TS2000/V8	✓	✓	✓	✓
Battery				ı	
V9-BT	Replacement battery for V10/V9	✓	✓	✓	✓
Protection Sheets					
V1015S-GS	Protection sheet for V1015iS	✓			
V1015S-GSN10	Protection sheet for V1015iS (Non-glare)	✓			
V1012S-GS	Protection sheet for V1012iS		✓		
V1012S-GSN10	Protection sheet for V1012iS (Non-glare)		✓		
V1010S-GS	Protection sheet for V1010iS			✓	
V1010S-GSN10	Protection sheet for V1010iS (Non-glare)			✓	
V1008S-GS	Protection sheet for V1008iS				✓
	1	1			+

^{*1} PLC connection cables other than those listed above are also available. Please contact us for more information.

^{*3} V-SFT Ver. 6.1.6.0 or later is not supported on Windows XP/XP64 Edition

^{*2} Can only be used with some CPU hardware versions. D9-FU-SPHCPU- \square M is required separately. Please contact us for more information.

Wide variety of devices

Industry-leading number of connectable equipment *1

Outstanding connectability with multiple devices for simultaneous communication and data transfer



Unparalleled number of connectable devices

No. of manufacturers: 77 No. of protocols: 456*2

List of Connectable Devices



www.monitouch.com/site/support-e/plc-01.html

*1 According to our own research. *2 As of April 2023

Support System

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www.monitouch.com

Global Sales Network

Our distributors are ready to support your worldwide business.

www.monitouch.com/site/distributors-e/distributors-oversea-01.html



To the purchasers:

The warranty of this product is as follows, unless there are special instructions that state otherwise in the quote, contract, catalog, or specifications at the time of the quote or order.

The purpose or area of use may be limited, and a routine checkup may be required depending on the product. Please contact the distributor from which you purchased the product, or Fuji Electric/Hakko Electronics for further information.

Please conduct inspection of the product promptly upon purchase or delivery. Also, please give sufficient consideration to management and maintenance of the product prior to accepting it.

1 Period and Coverage of the Warranty

1-1 Period

- (1) The period of the warranty is effective until twenty-four (24) months from the date of manufacture printed on the plate.
- (2) The above period may not be applicable if the particular environment, conditions or frequency of use affects the lifetime of the product.
- (3) The warranty for the parts repaired by our service department is effective for six (6) months from the date of repair.

1-2 Coverage

- (1) If malfunction occurs during the period of warranty due to negligence on the part of Fuji Electric/Hakko Electronics, the malfunctioning parts are exchanged or repaired free of charge at the point of purchase or delivery. However, the warranty does not apply to the following cases:
 - 1) The malfunction occurs due to inappropriate conditions, environment, handling or usage that is not specified in the catalog, instruction book or users' manual.
- 2) The malfunction is caused by factors that do not originate in the purchased or delivered product.
- 3) The malfunction is caused by another device or software design that does not originate in a Fuji Electric/Hakko Electronics product.
- 4) The malfunction occurs due to an alteration or repair that was not performed by Fuji Electric/Hakko Electronics.
- 5) The malfunction occurs because the expendable parts listed in the instruction book or catalog were not maintained or replaced in an appropriate manner.
- 6) The malfunction occurs due to factors that were not foreseeable by the practical application of science and technology at the time of purchase or delivery.
- 7) The malfunction occurs because the product is used for a purpose other than that for which it is intended.
- 8) The malfunction occurs due to a disaster or natural disaster that Fuji Electric/Hakko Electronics are not responsible for.
- (2) The warranty is only applicable to the single purchased and delivered product.
- (3) The warranty is only valid for the conditions stated in (1) above. Any damage induced by the malfunction of the purchased or delivered product, including damage or loss to a device or machine and passive damage, is not covered by the warranty.

1-3 Malfunction Diagnosis

The initial diagnosis of malfunction is to be made by the purchaser. The diagnosis can be conducted by Fuji Electric/Hakko Electronics or our delegated service provider with due charge upon the request of the purchaser. The charge is to be paid by the purchaser at the rate stipulated in the rate schedule of Fuji Electric/Hakko Electronics.

2 Liability for Opportunity Loss

Regardless of the time of occurrence, Fuji Electric/Hakko Electronics are not liable for damage caused by factors that Fuji Electric/Hakko Electronis are not responsible for, opportunity loss on the part of the purchaser caused by the malfunction of a Fuji Electric/Hakko Electronics product, passive damage, damage due to a special situation regardless of whether it was foreseeable or not, or secondary damage, accident compensation, damage to products that were not manufactured by Fuji Electric/Hakko Electronics, or compensation towards other operations.

3 Period for Repair and Provision of Spare Parts after Production is Discontinued (Maintenance Period)

Discontinued models (products) can be repaired for seven (7) years from the date of discontinuation. Also, most spare parts used for repair are provided for seven (7) years from the date of discontinuation. However, some electric parts may not be available due to their short life cycle. In this case, it may be difficult to repair or provide the parts during the seven-year period. Please contact Fuji Electric/Hakko Electronics or our service providers for further information.

4 Delivery

Standard products that do not entail application setting or adjustment are regarded as received by the purchaser upon delivery. Fuji Electric/Hakko Electronics are not responsible for local adjustments and test runs.

The price of the delivered or purchased products does not include the service fee for the technician. Please contact Fuji Electric/Hakko Electronics or our service providers for further information.

6 Scope of Application

The above contents shall be assumed to apply to transactions and product use in the country where a Fuji Electric/Hakko Electronics product is purchased. Please consult your local supplier or Fuji Electric/Hakko Electronics for details.

Safety Considerations

- For safe operation, read the instruction manual or user manual that comes with the product carefully or consult the distributor from which you purchased the product, before using the product.
- Products introduced in this catalog have not been designed or manufactured for such applications in a system or equipment that will affect human bodies or lives.
- Customers, who want to use the products introduced in this catalog for special systems or devices such as for atomic-energy control, aerospace use, medical use, passenger vehicle, and traffic control, are requested to consult the Hakko Overseas Sales Section.
- Customers are requested to prepare safety measures when they apply the products introduced in this catalog to such systems or facilities that will affect human lives or cause severe damage to property if the products become faulty.
- For safe operation, wiring should be conducted only by qualified engineers who have sufficient technical knowledge about electrical work or wiring.

Notes to consider before purchasing

- Appearance and specifications are subject to modification without prior notice due to technical improvements.
- Colors in the catalog may differ from the actual colors due to printing inaccuracies.
- Consult your distributor or us for further information about products in this catalog.

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