

## 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.

## Environmental Compliance

### RoHS Directive compliant

MONITOUCH complies with the RoHS Directive.

\*For more information, please contact our sales department.

### ISO 14001 certified

Hakko Electronics' Head Office and Development Center earned ISO 14001 certification in 2003.



## Website

<http://www.monitouchs8.com>

Please visit us online for more detailed information about our products.

## Hakko Electronics Co., Ltd.

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## Distributor

**FE** e-Front runners

Product Catalog May 2010

**FilFar**<sup>®</sup>  
technology  
[www.filfar-technology.by](http://www.filfar-technology.by)

# MONITOUCH

# Simple & Superior & Smart



# S8 series

Hakko Electronics Co., Ltd.






Accessories


Screen configuration software

Options




**V-SFT-5 (Ver. 5)**

Windows 98, Me, NT Ver. 4.0, 2000, XP, XP 64 Edition, Vista 32-bit Edition, 7




**TC-D9 (COM1 only)**

Terminal block to connect an external device via RS-422/485.



**UB-FR**

USB-B extension cable

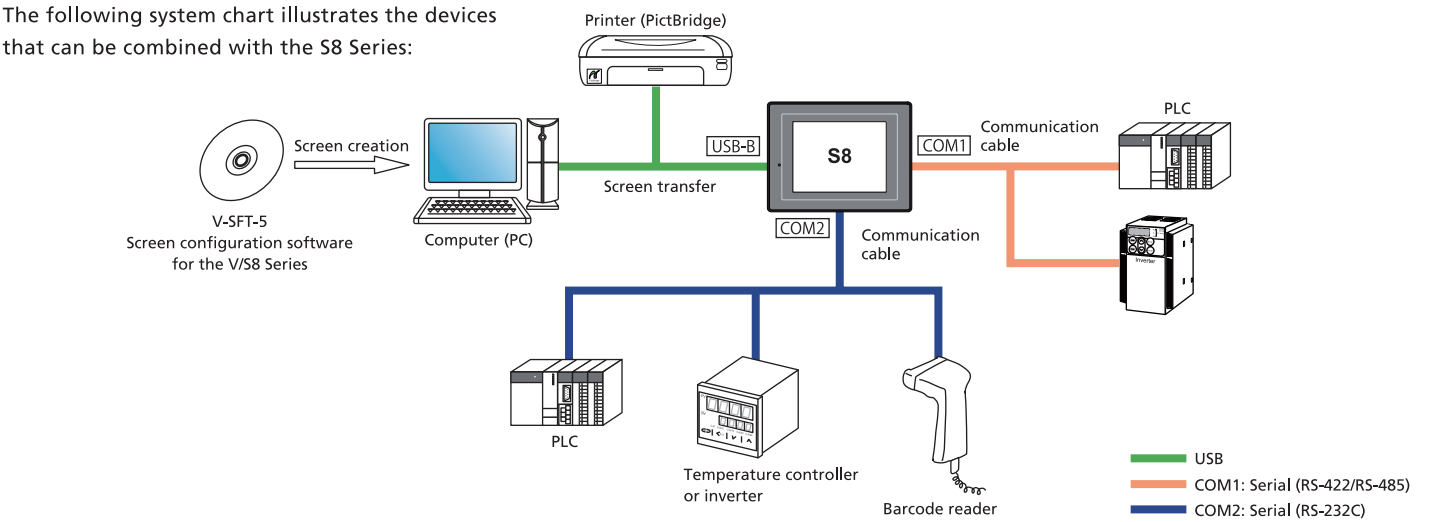


**V8xx-GS/V8xx-GSN10**

Protective sheet for operating panels. N10: Non-glare type. (1 set of 5 sheets)

■ xx···08: For S808  
06: For S806

System Configuration



Dimensions and Part Names

**S808**

Front view, Back view, Side view, Bottom view, Panel cutout

Unit: mm

**S806**

Front view, Back view, Side view, Bottom view, Panel cutout

【Part names】

- 1 Display
- 2 Power lamp
- 3 DIP switches
- 4 Power supply
- 5 RS-422/485 communications connector (COM1)
- 6 RS-232C communications connector (COM2)
- 7 USB slave (U-B)

Specifications

General specifications

Item		Model	S808	S806	
				S806C	S806M
Power supply	Rated voltage	24VDC			
	Permissible range of voltage	24VDC±10%			
	Permissible momentary power failure	Within 1ms			
	Demand(maximum rating)	9W or less	6.5W or less	4.5W or less	
	Inrush current	18A, 1ms(24VDC)	10A, 1ms(24VDC)		
Insulation resistance		500VDC, 10MΩ or more			
Physical environment	Ambient temperature	0℃ to +50℃			
	Storage temperature	−10℃ to +60℃			
	Ambient humidity	85%RH or less(without dew condensation, Max. wet bulb temperature:39℃ or lower) *1			
	Resistance to solvent	No attachment of cutting oil or organic solvent			
	Atmosphere	Not exposed to corrosive gas or conductive dust			
	Operation altitude	2,000 meters or lower			
	Contamination level	Level 2 *2			
Mechanical operating conditions	Resistance to oscillation	Vibration frequency:10~150Hz, acceleration:9.8m/s2(1.0G)pulsating width:0.075mm, X, Y, Z:3directions 1hour each way			
	Resistance to shock	Pulse shape:half-sine, peak acceleration:147ms2(15G), X, Y, Z:3 directions, six times each way			
Electric operating conditions	Noise proof	1000Vp-p(pulse width 1 μs, pulse rise time : 1ns)			
	Static discharge	Complies with IEC61000-4-2, contact:6kV,air:8kV			
Installation conditions	Grounding	Less than 100Ω, FG/SG separated			
	Structure	Front panel : Compatible with IP65(when water-proof gasket is used.) Rear case : Compatible with IP20			
	Cooling system	Natural air cooling			
	Weight	Approx. 1.1kg	Approx. 0.6kg		
	Dimensions W×H×D(mm)	233.0×178.0×59.8	182.5×138.8×48.8		
	Panel cutout(mm)	220.5×165.5(+0.5/−0)	174.0×131.0(+0.5/−0)		
Case color		Black			
Material		PC/PS			

\*1 Keep wet bulb temperature under 39℃ to avoid an accident.  
\*2 Contamination level is an index that shows the incidence rate of conductive substance. At Level 2, only nonconductive substance is produced, but a temporary conductive state may occur due to dew concentration.

Performance specifications

Item		Model	S808	S806	
				S806C	S806M
Display specifications	Screen memory		2.25MB		
	Display device		TFT color LCD	STN color LCD	STN monochrome LCD
	Resolution W:H(dots)		640×480	320×240	
	Display size		8.4 inches	5.7 inches	
	Colors		256 colors(without blinks)/128 colors(with blinks)		8 grayscales(with blinks)
	Backlight		Cold cathode tube	LED	
	Backlight life		Approx. 50,000 hours	Approx. 40,000 hours	Approx. 50,000 hours
	Backlight Auto OFF		Lit in normal(set by the user)		
	Power lamp		ON when the power is supplied		
	Contrast adjustment		Fixed	Adjustable(contrast adjustment screen or macro switch)	
Number of characters	1/4 size		80 columns×60 lines	40 columns×30 lines	
	1-byte		80 columns×30 lines	40 columns×15 lines	
	2-byte		40 columns×30 lines	20 columns×15 lines	
Enlargement of characters			X:1 to 8times Y:1 to 8times		
Touch switch	Switch resolution		Analog:1,024×1,024		
	Mechanical life		1 million times or more		
	Surface treatment		Hard coating, anti-glare finish 5%		
External interface	D-sub 9-pin(F) (COM1)		RS-422/485, Asynchronous type, Data length:7.8 bits, Parity:even,odd, none,Stop bit:1,2bits, Baud rate:4800, 9600, 19200, 38400, 57600, 76800, 115200 bps(187500 bps for MPI connection) *1		
	D-sub 9-pin(M) (COM2)		RS-232C, Asynchronous type, Data length:7.8 bits, Parity:even, odd, none, Stop bit:1,2bits, Baud rate:4800, 9600, 19200, 38400, 57600, 76800, 115200 bps		
	USB(U-B)		Type B(ver1.1)		
Clock & Back up memory	Battery		Coin-type lithium primary cell		
	Back up memory(SRAM)		SRAM 128 kbytes *2		
	Back up period		5 years from the date of manufacturing(ambient temperature 25℃)		
	Calendar accuracy		Gap±90sec. per month(ambient temperature 25℃)		

\*1 Available only when connected with SIEMENS MPI, except S806M10D.  
\*2 Except S806M10D.

Compatible Devices

PLCs

Brand	PLCs	1 : 1	1 : n Multi-drop	n : 1 Multi-link2	n : 1 Multi-link
AB OEMax	NX7/NX Plus Series	○	○	○	○
	N7/NX Series	○	○	○	○
Allen-Bradley	PLC-5	○	○	○	○
	SLC500	○	○	○	
	MicroLogix	○		○	
	ControlLogix/CompactLogix	○		○	
Automationdirect	Direct LOGIC(K-Sequence)	○		○	
	Direct LOGIC(Modbus RTU)	○	○	○	
	BMx-x-PLC	○		○	
Baumuller	DVP Series	○	○	○	○
DELTA	ELC	○	○	○	
EATON Cutler-Hammer	EC10/EC20/EC20H	○	○	○	
EMERSON PLC	Power Mate	○		○	
FANUC	FACON FB series	○	○	○	
FATEK AUTOMATION	MICREX-F series	○	○	○	○
Fuji Electric	MICREX-F series (V4 compatible)	○	○	○	
	SPB(N-mode)&FLEX-PC series	○	○	○	
	SPB(N-mode)&FLEX-PC CPU	○	○	○	
	MICREX-SX SPH/SPB series	○		○	
	MICREX-SX SPH/SPB CPU	○		○	
	90 series (SNP-X)	○		○	
Hitachi	HIDIC-S10/2 α ,S10mini	○		○	
	HIDIC-S10V	○		○	
Hitachi Industrial Equipments System	HIDIC-H	○	○	○	
	HIDIC-EHV	○	○	○	
IDEC	MICRO3	○	○	○	
	MICRO Smart	○	○	○	
	MICRO Smart pentra	○	○	○	
JTEKT	TOYOPUC	○	○	○	
KEYENCE	KV10/24 CPU	○		○	
	KV-700	○		○	
	KV-1000	○		○	
	KV-3000/5000	○		○	
KOYO ELECTRONICS	SU/SG(K-Sequence)	○	○	○	
	SU/SG(Modbus RTU)	○	○	○	
LS	MASTER-KxxxS	○		○	
	MASTER-KxxxS CNET	○	○	○	
	GLOFA CNET	○	○	○	
	GLOFA GM Serises CPU	○	○	○	○
	XGT/XGK series	○	○	○	
	XGT/XGK series CPU	○		○	
MITSUBISHI ELECTRIC	A series link	○	○	○	○
	QnA series link	○	○	○	
	QnH(Q) series link	○	○	○	
	QnH(Q) series CPU	○		○	
	Q00J/00/01 CPU	○		○	
	QnU series CPU	○		○	
	QnH(Q) series link (multi CPU)	○	○	○	
	QnH(Q) series CPU (multi CPU)	○		○	
	FX2N series CPU	○		○	
	FX1S series CPU	○		○	
	FX series link (A protocol)	○	○	○	○
	FX3U/3UC/3G series CPU	○		○	
	Modbus RTU	○	○	○	
MODICON	SYSMAC C	○	○	○	○
OMRON	SYSMAC CV	○	○	○	
	SYSMAC CS1/CJ1	○	○	○	
Panasonic Electric Works	FP series	○	○	○	○
SAIA	PCD	○	○	○	
SAMSUNG	N_plus	○	○	○	○
	SECNET	○	○	○	○
SHARP	JW series	○	○	○	○
	JW100/70H COM port	○	○	○	○
	JW20 COM port	○	○	○	○
Siemens	S7	○			
	S7-200 PPI *187.5Kbps supported *1	○	○		
	S7-300/400MPI *187.5Kbps supported *1	○	○		
SINFONIA TECHNOLOGY (Shinko)	SELMART	○	○	○	○
TECO	TP-03 (MODBUS RTU)	○	○	○	
Telemecanique	TSX Micro	○			○
TOSHIBA	T series/V series(T compatible)	○	○	○	○
	EX series	○	○	○	
TOSHIBA MACHINE	TC200	○	○	○	
TOYO DENKI	μ GPCsx series	○		○	
	μ GPCsx CPU	○		○	
UNITRONICS	M90/M91/Vision Series(ASCII)	○	○	○	
	MEMOBUS	○	○	○	
Yaskawa Electric	CP9200SH/MP900	○	○	○	
	MP2000 series	○	○	○	
Yokogawa Electric	FA-M3	○	○	○	○
	FA-M3R	○	○	○	○
	MODBUS RTU(Free Format)	○	○	○	
Others	Universal Serial *2	○	○		

\*1: S806M10D is not supported.  
\*2: For RS422/485, only the communication without flow control is supported.

Temperature controllers/others

Brand	Thermo controller/Servo/Inverter
CHINO	DP1000
COPLEY	Servo
DELTA TAU DATA SYSTEMS	PMAC
Fuji Electric	PYX(MODBUS RTU)
	PXR(MODBUS RTU)
	PXG(MODBUS RTU)
	PXH(MODBUS RTU)
	F-MPC04P(Loader)
	F-MPC Series/FePSU
	FVR-E11S(MODBUS RTU)
	FVR-C11S(MODBUS RTU)
	FRENIC5000G11S/P11S(MODBUS RTU)
	FRENIC5000VG7S(MODBUS RTU)
	FRENIC-Mini(MODBUS RTU)
	FRENIC-Eco(MODBUS RTU)
	FRENIC-Multi(MODBUS RTU)
	FRENIC MEGA (MODBUS)
	HFR-C9K
	HFR-C11K
	PPMC(MODBUS RTU)
	FALDIC- α series
	PHR(MODBUS RTU)
	WA5000
Gammaflux	PUM(MODBUS RTU)
	ALPHA5
HITACHI	APR-N series (MODBUS RTU)
	WE1MA series (MODBUS RTU)
HITACHI	TTC2100
	SJ300 series
IAI	SJ700 series
	X-SEL Controller
	ROBO CYLINDER(RCP2/ERC)
	ROBO CYLINDER(RCS/E-CON)
	PCON/ACON/SCON(MODBUS RTU)
MITSUBISHI ELECTRIC	FR- *500
	FR-V500
	MR-J2S- *A
	MR-J3- *A
	MR-J3- * T
	FR-E700
MOOG	J124-04x series
M-SYSTEM	R1M Series(MODBUS RTU)
OMRON	ESCK
	ESZE
	ESZD
	ESEK
	ESAK
	E5AN/E5EN/E5CN/E5GN
	E5ZN
	E5AR/E5ER
	V600/620
	KM20
	KM100
Others	MODBUS RTU

Brand	Thermo controller/Servo/Inverter
RKC	SR-Mini(MODBUS RTU)
	CB100/CB400/CB500/CB700/CB900(MODBUS RTU)
	SR-Mini(Standard Protocol)
	REX-F400/F700/F900(Standard Protocol)
	SRV(MODBUS RTU)
	MA900/MA901(MODBUS RTU)
	SRZ(MODBUS RTU)
SanRex	DC AUTO (HKD type)
SHARP	DS-30D
	DS-32D
SHIMADEN	SHIMADEN Standard Protocol
Shinko Technos	C Series
	FC Series
	DCL-33A
	JCx-300 Series
SUNX	LP-400
TOHO Electronics	TTM-00BT
	TTM-200(MODBUS RTU)
TOSHIBA	VF-S7
	VF-S9
	VF-S11
	VF-A7
	VF-AS1
	VF-P7
	VF-PS1
TOSHIBA MACHINE	VF-FS1
	VF-nC1
	VELCONIC series
UNIPULSE	F340A
	F371
	F800
	F720A
Yamaha	RCX142
Yamatake	SDC10
	SDC20
	SDC21
	SDC30/31
	SDC35/36
	SDC40A
	SDC40G
	DMC10
YOKOGAWA M&C	DMC50(COM)
	AHC2001
	AHC2001+DCP31/32
	DCP31/32
	UT100
	UT750
	UT550
	UT520
	UT450
	UT350
	UT320
	UT2400/2800