

SIF-600

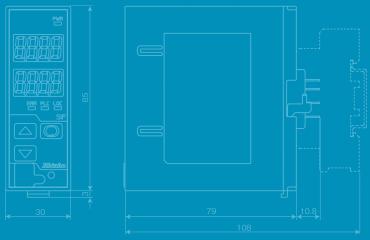
4 Communication Methods

The Best Choice Is Yours



Enables communication between PLC and Peripheral Devices

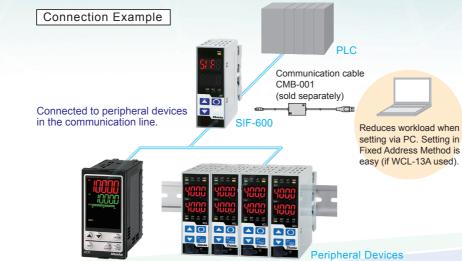
Connect up to 95 units



Easy connection without programming (Shinko WCL-13A series)
Easy maintenance (plug-in socket)

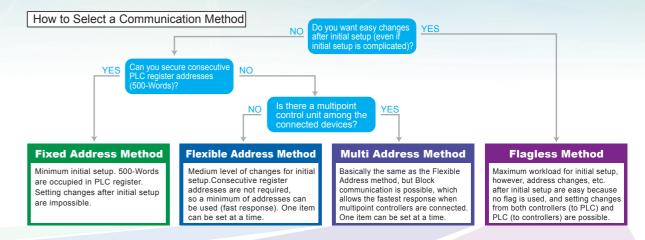
Interfaces between PLC and Peripheral Devices

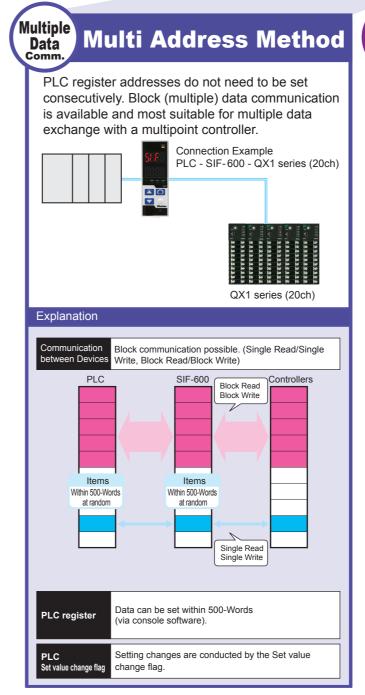


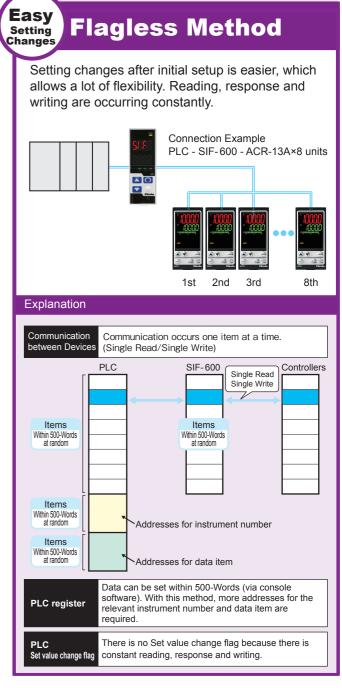


Easy Fixed Address Method Flexible Address Method Initial If consecutive PLC register addresses can be PLC register addresses do not need to be set secured, this method is made easy by using the consecutively. As data items can be randomly set, default values of the SIF-600, without programming. the space occupied by register addresses is greatly reduced, compared to Fixed Address Method. Connection Example Connection Example PLC - SIF-600 - ACR-13A×8 units PLC - SIF-600 - WCL-13A×20 units Explanation Explanation Communication occurs one item at a time Communication occurs one item at a time (Single Read/Single Write) (Single Read/Single Write) PLC PLC Single Read Single Read Single Write 500-Words 500-Words Within 500-Words Within 500-Words Fixed Fixed at random at random 500-Words are consecutively occupied as data setting Data can be set within 500-Words **PLC** register PLC register Setting changes are conducted by the Set value Setting changes are conducted by the Set value PLC change flag Set value change flag

Select from 4 Communication Methods!



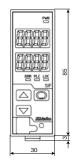


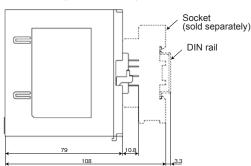


■ Standard Specifications

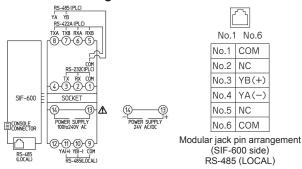
Name, Model	PLC interface unit, SIF-600
Communication	Between SIF and PLC: RS-232C, RS-485, RS-422A (terminal connection),
_ine	Between SIF and Peripheral devices: RS-485 (Modular jack or terminal connection)
Compatible PLC	Mitsubishi Electric Corp.: MELSEC Q series, QnA series (Q command only), MELSEC FX series (Q command only)
	Omron Corp.: CJ/CS/CP series
	Keyence Corp.: KV series
	Yokogawa Electric Corp.: FA-M3 series
	Fuji Electric Co., Ltd.: MICREX-SX series
Communication	PLC communication function (Communicates with a PLC selected in the Parameter setting mode.)
	Communication line: RS-232C/RS-485/RS-422A RS-422A: Built-in terminator (200Ω) between RXA and RXB
	Communication method: Half-duplex communication start-stop synchronization
	Communication speed: 9600bps, 19200bps, 38400bps (Default: 9600bps)
	Data format: Start bit: 1 bit
	Data length: 7 bits, 8 bits (Default: 7 bits)
	Parity: No parity, Even, Odd (Default: Even)
	Stop bit: 1 bit, 2 bits (Default: 1 bit)
	Peripheral devices communication function
	Communication line: RS-485
	Communication method: Half-duplex communication start-stop synchronization
	Communication speed: 9600bps, 19200bps, 38400bps (Default 9600bps)
	Data format: Start bit: 1 bit
	Data length: 7 bits, 8 bits (Default : 7 bits)
	Parity: No parity, Even, Odd (Default : Even)
	Stop bit: 1 bit, 2 bits (Default: 1 bit)
	Connectable devices: Controllers with Shinko protocol, MODBUS protocol (ASCII,
	Initial setup communication RTU)
	Setting item data can be transmitted via the console software for initial setup. To connect a PC and SIF-600, use communication
	cable (CMB-001, sold separately), and connect to the Console communication connector on the front panel of the SIF-600.
	Compatible OS: Windows 7, Windows 8, Windows 10
	Compunication line: TTL level
	Communication method: Half-duplex communication start-stop synchronization
	Communication speed: 19200bps (Fixed)
Display	Upper display, Lower display: Red LED 4-digit, Character size: 7.4×4mm (H×W)
Indicator	PWR indicator(Yellow): Lit when the power is supplied to the instrument.
	ERR indicator (Red): Lit when communication errors have occurred.
	PLC indicator (Yellow): Lit while communicating with the PLC [Serial communication TX output (transmitting)].
	LOC indicator (Yellow): Lit while communicating with the peripheral devices [Serial communication TX output (transmitting)].
Supply Voltage	100 to 240V AC 50/60Hz (Allowable fluctuation range: 85 to 264V AC),
	24V AC/DC 50/60Hz (Allowable fluctuation range: 20 to 28V AC/DC) (Must be specified)
nsulation Resistance	10M Ω or more, at 500V DC
	Power terminal – Communication (LOCAL) terminal – 1.5kV AC for 1 minute
Dielectric Strength	Power terminal – Communication (PLC) terminal 1.5kV AC for 1 minute
	Communication (PLC) terminal – Communication (LOCAL) terminal 1.5kV AC for 1 minute
mbient Temp, Humidity	Ambient temperature: 0 to 50 °C, Ambient humidity: 35 to 85%RH (non-condensing)
ower Consumption	
Nounting	DÍN rail
Dimensions, Weight	Dimensions: W30×H88×D108 mm [socket (sold separately) included], Weight: Approx. 180g [socket (sold separately) included]
	Display-OFF function: In the communication mode, displays are turned off if operation does not take place for the configured time.
Address of Francis	Auto-light function: Automatically measures and controls brightness of the displays.
Attached Function	Auto-light function. Automatically incasures and controls brightness of the displays.
Attached Function Accessories Sold	Socket: ASK-001-1 (Finger-safe, Ring terminals unusable)

■ External Dimensions (Scale : mm)





■ Terminal Arrangement





- To ensure safe and correct use, thoroughly read and understand the manual before using this instrument.
 This instrument is intended to be used for industrial machinery, machine tools and measuring equipment. Verify correct usage after purpose-of-use consultation with our agency or main office.
 (Never use this instrument for medical purposes with which human lives are involved.)

 External protection devices such as protection equipment against excessive temperature rise, etc. must be installed, as malfunction of this product could result in serious damage to the system or injury to personnel. Also proper periodic maintenance is required.
- This instrument must be used under the conditions and environment described in the manual. Shinko Technos Co., Ltd. does not accept liability for any injury, loss of life or damage occurring due to the instrument being used under conditions not otherwise stated in this manual.
- This catalog is as of April 2021 and its contents are subject to change without notice.
- Photos used in this catalog do not show unit in operating status.
- If you have any inquiries, please consult us or our agency.

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Caution with respect to **Export Trade Control Ordinance**

To avoid this instrument from being used as a component in, or as being utilized in the manufacture of weapons of mass destruction (i.e. military applications, military equipment, etc.), please investigate the end users and the final use of this instrument. In the case of resale, ensure that this instrument is not illegally exported.