PLC

SIF-400

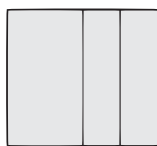Indicating controllers with communication function

Making things easier!

No extra programming,
DIN rail mounting saves space.

System configuration of PLC interface unit SIF-400 and Shinko digital indicating controllers (DCL-33A or JCx-33A series)

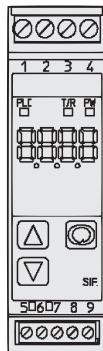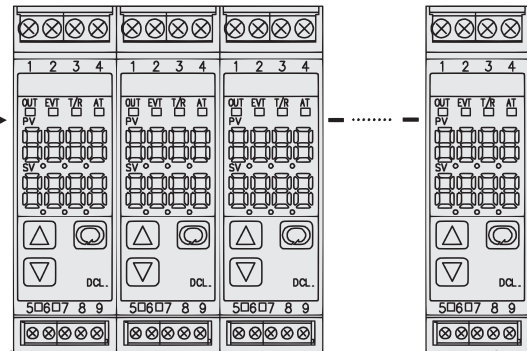(The following example shows the configuration of the DCL-33A units.)

Configuration example

PLC interface unit SIF-400

DCL-33A
(Flexible address selection: Up to 32 units connectable
Fixed address: Up to 20 units connectable)

PLC ＋ Link unit

RS-422A
RS-485
RS-232C

RS-485

Shinko digital indicating controllers
・ DCL-33A or JCx-33A

PLCs corresponding to SIF-400 and its manufacturer
・ **Mitsubishi Electric Corp.**
　MELSEC A (A, AnA), Q series, QnA series
　MELSEC FX2N series

・ **Omron Corp.**
　SYSMAC C200H series

・ **Fuji Electric Co., Ltd.**
　MICREX-F series

For products other than listed above, consult us.
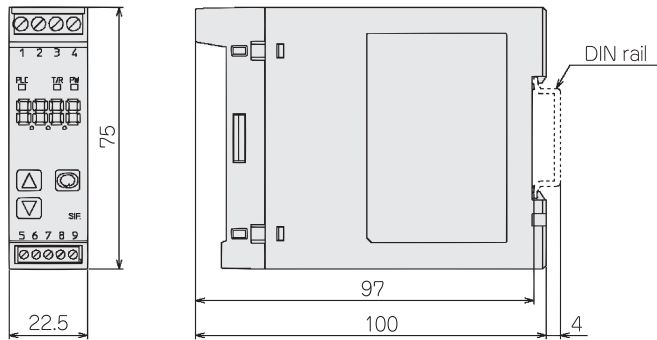
PLC Interface Unit

■ Overview

The SIF-400 is a unit for interfacing between the PLC and a maximum of 32 units of digital indicating controllers (DCL-33A or JCx-33A series) The SIF-400 stores the data of the controllers in the PLC register, and exchanges data by activating Reading/Writing flag.
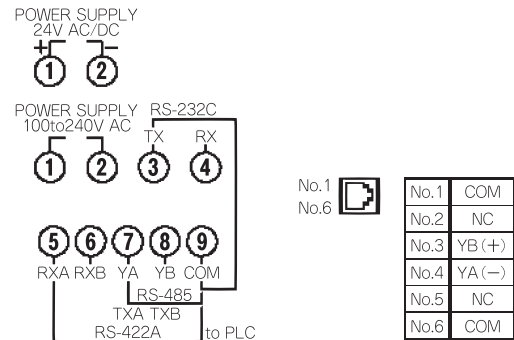
Three types of memory allocation for the PLC

1. Flexible address selection (Memory allocation per item)	· Top address that SIF-400 uses, the number of controllers connected with the SIF-400 and communication item Used/Not used can be freely designated by software such as ladder software, loaded in the PLC.
2. Flexible address selection (Memory allocation per channel)	· A maximum of 32 units can be connected.
3. Fixed address	· The predetermined communication items are written to and read from the register area. · Initial setting on the PLC side is not necessary. · A maximum of 20 units can be connected.

■ External dimensions

DIN rail

75

22.5   97   100   4

■ Terminal arrangement

POWER SUPPLY 24V AC/DC
① ②

POWER SUPPLY 100to240V AC   RS-232C   TX   RX
① ② ③ ④

⑤ ⑥ ⑦ ⑧ ⑨
RXA RXB   YA   YB   COM
RS-485
TXA TXB
RS-422A   to PLC

No.1
No.6

No.1	COM
No.2	NC
No.3	YB (+)
No.4	YA (−)
No.5	NC
No.6	COM

■ Standard specifications

Model	PLC Interface Unit			
Name	SIF-400			
Supply voltage	Must be specified. · 100 to 240V AC 50/60Hz · 24V AC/DC 50/60Hz	PLC link	PLC manufacturer	Model name
Allowable voltage fluctuation range	100 to 240V AC : 85 to 264V AC 24V AC/DC : 20 to 28V AC/DC		Mitsubishi Electric Corp.	PLC model name: MELSEC A (A, AnA) Q series, QnA series MELSEC FX2N series Host link unit model name: AJ71UC24 A1SJ71UC24-R2/R4/PRF A1SJ71C24-R2/R4/PRF QJ71C24
Communication line	Between SIF-400 and PLC: Based on RS-232C/RS-485/RS-422A (terminal) Between SIF-400 and controllers: Based on RS-485 (modular jack)			
External dimensions	22.5 x 75 x 100mm (W x H x D)			
Mounting method	DIN rail mounting			
Display	Parameter display: Green LED 4 digits, Character size: 7.5 x 4.1mm			
Indicator	PLC communication indicator (yellow) Controller communication indicator (yellow) Power indicator (green)		Omron Corp.	PLC model name: SYSMAC C200H series Host link unit model name: LK201-V1, LK202-V1
Power consumption	Approx. 5VA			
Isolation resistance	10MΩ or greater at 500V DC			
Dielectric strength	1.5kV AC for 1 minute Between power terminal and controller communication modular jack Between power terminal and PLC communication terminal		Fuji Electric Co., Ltd.	PLC model name: MICREX-F series Host link unit model name: NC1L-RS2, NC1L-RS4
Ambient temperature, humidity	0 to 50℃ 35 to 85%RH (Non-condensing)			
Case	Flame resistant resin, Light gray			
Weight	Approx. 150g			
Functions	**Communication with controllers** Communicates with the digital indicating controllers selected during the Parameter setting mode. · Controller model name selection: DCL-33A, JCx-33A series Selectable by keypad (Default: DCL-33A) · Communication line Based on RS-485 · Communication method Half-duplex communication start-stop synchronous · Communication speed 19200bps, 9600bps Selectable by keypad (Default: 9600bps) · Data format Start bit : 1 (Fixed value) Data length : 7 (Fixed value) Parity : Even (Fixed value) Stop bit : 1 (Fixed value)		**Communication with the PLC** Communicates with the PLC selected during the Parameter setting mode. · PLC model name selection Mitsubishi MELSEC, Omron SYSMAC, Fuji MICREX-F · Communication line Based on RS-232C/RS-485/RS-422A RS-422A Built-in terminator (200Ω) between RXA and RXB · Communication method Half-duplex communication start-stop synchronous · Communication speed 19200bps, 9600bps Selectable by keypad (Default: 9600bps) · Data format Start bit : 1 Data length : 7, 8 Selectable by keypad (Default: 7) Parity : No, Even, Odd Selectable by keypad (Default: Even) Stop bit :1, 2 Selectable by keypad (Default: 1)	

· This catalog is as of February 2004, and specifications are subject to change without notice.
· If you have any inquiries, please consult us or our agency.