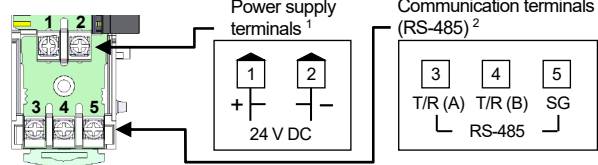


4.2 Terminal Configuration

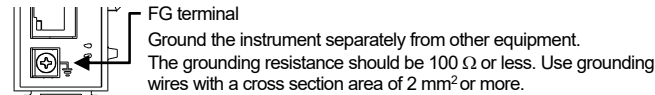
● Lower part of the base



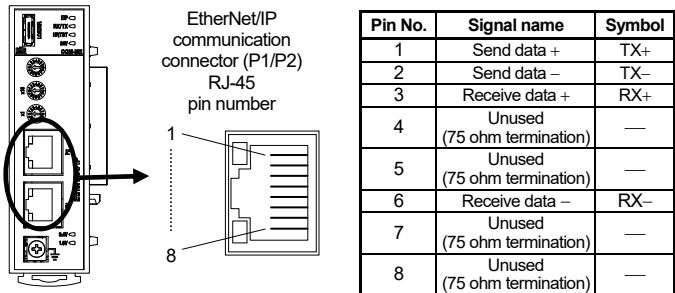
¹ Supply the power to only one of the joined modules or COM-ME. When power is supplied to any one of the joined modules or COM-ME, all of the joined modules and COM-ME will receive power.

² The communication lines of the modules connected to the COM-ME are mutually interconnected. Make the wiring of the communication terminals between the COM-ME and any one of the modules.

● Lower part of the front

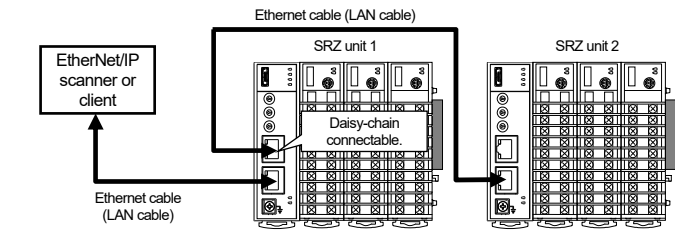


4.3 Connection to EtherNet/IP



■ Connection Example

The Ethernet cable (LAN cable) which is marketed can be connected. The Ethernet cable (LAN cable) must be provided by the customer.



Ethernet straight through cable and Ethernet crossover cable may be used. Use category 5 Ethernet cable (LAN cable).

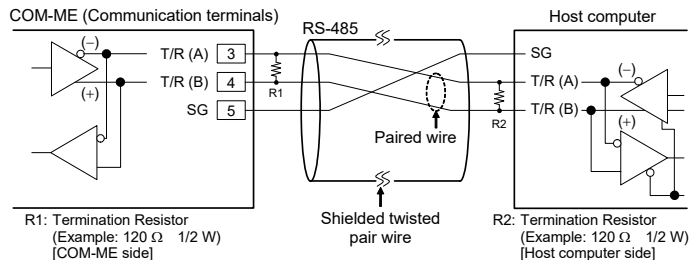
For EtherNet/IP, refer to the website of ODVA (Open DeviceNet Vendor Association). <https://www.odva.org>

4.4 Connection to Host Computer

Use RS-485 interface for connection to the host computer.

■ Connection Example

Up to 31 modules of SRZ can be connected to one communication port of the host computer.

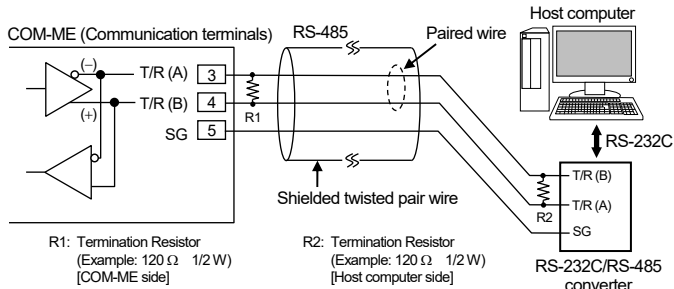


Pin number and signal details		
Pin No.	Signal name	Symbol
3	Send/Receive data	T/R (A)
4	Send/Receive data	T/R (B)
5	Signal ground	SG

If communication errors occur frequently due to the operation environment or the communication distance, connect termination resistors to the host computer side.

● When the interface of host computer is RS-232C

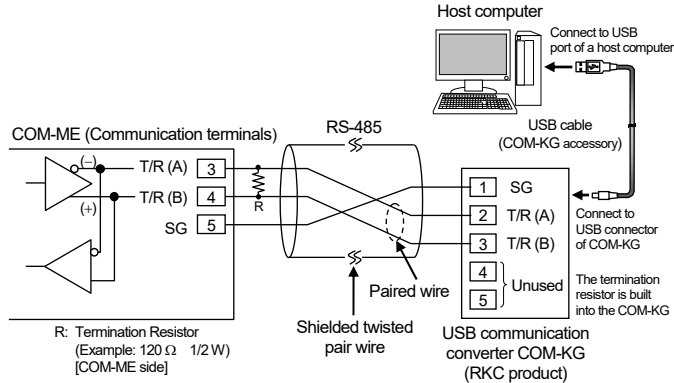
Connect the RS-232C/RS-485 converter between the host computer and the COM-ME.



Recommended RS-232C/RS-485 converter:
CD485, CD485/V Data Link product, Inc. or equivalent.

● When the host computer has a USB connector

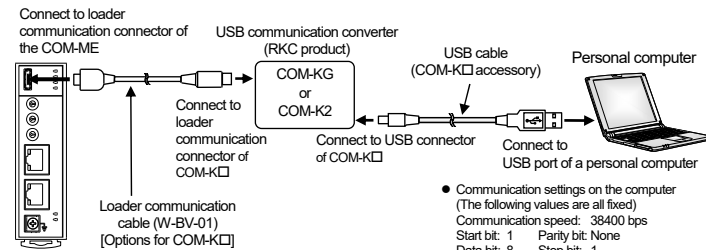
Connect the USB communication converter between the host computer and the COM-ME.



For the COM-KG, refer to the **COM-KG Instruction Manual**. You can also use our USB communication converter COM-K2.

■ Loader communication

Connect a USB communication converter between the host computer and the COM-ME.



The Loader port is only for parameter setup. Not used for data logging during operation.

During the loader communication, the COM-ME requires an external power source. The COM-ME will not function on the USB power from a personal computer alone.

The module address for loader communication is fixed at "0."

For the COM-KG, refer to the **COM-KG Instruction Manual**. You can also use our USB communication converter COM-K2.

5. COMMUNICATION SETTINGS

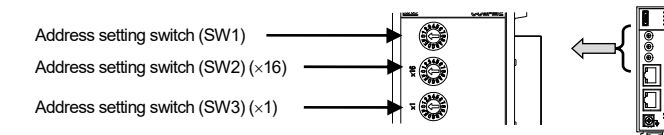
5.1 Address Setting

These switches are used to set the device address for the host communication and the IP address for various network communications.

Use a small flat-blade screwdriver to configure the setting.

Set the address such that it is different to the other addresses on the same line. Otherwise, problems or malfunction may result.

To activate the set device address, turn off the power once and turn it back on again.

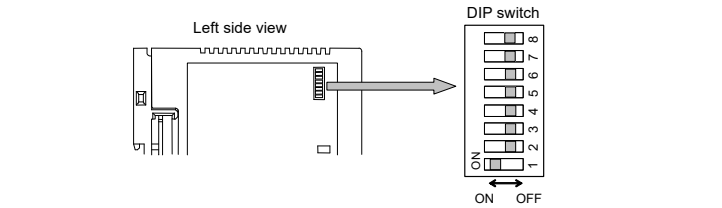


- Address setting switch (SW1): During operation *: Not used
During IP address setting *: Setting operation **
Setting range: 00 to 0Fh (Factory set value: 00h)
- Address setting switch (SW2): During operation *: Host communication address (high order)
During IP address setting *: IP address (high order)
Setting range: 00 to 0Fh (Factory set value: 00h)
- Address setting switch (SW3): During operation *: Host communication address (low order)
During IP address setting *: IP address (low order)
Setting range: 00 to 0Fh (Factory set value: 00h)

* How to recognize "during operation" and "during IP address setting"
During operation: Started with the DIP switch No.6 OFF and No.7 OFF
During IP address setting: Started with DIP switch No.6 OFF and No.7 ON
** Used to input and determine the IP address setting done on the Address setting switches (SW2 and SW3).

5.2 Communication Setting Other Than Address

The DIP switch is used for communication speed of the host communication, communication protocol, enable/disable the DIP switch setting, and the action of the IP address setting mode of the network communication.



1 2		Host communication speed	Factory set value: 19200 bps
OFF	OFF	9600 bps	
ON	OFF	19200 bps	
OFF	ON	38400 bps	
ON	ON	57600 bps	
3		Communication protocol/Data bit configuration	Factory set value: RKC communication
OFF		RKC communication (Data 8-bit, without parity, Stop 1-bit)	
ON		Modbus (Data 8-bit, without parity, Stop 1-bit)	
4 5		Fixed (Do not change)	Factory set value: Enabled
OFF	OFF		
6 7		Setting network communication/Host communication	
OFF	OFF	Operates with the set IP address	
ON	OFF	Do not change	
OFF	ON	Perform IP address setting on the Address setting switches	Factory set value: Enabled
ON	ON	Execute the default IP address setting	
8		DIP switch enable/disable	Factory set value: Enabled
OFF		Enable (enable the DIP switch settings)	
ON		Disable (enable the host communication or loader communication settings)*	Factory set value: Enabled

* The only host communication or loader communication settings that are enabled are the host communication speed and protocol and the data bit configuration.

When the communication protocol is set with the DIP switch, the data bit configuration is automatically set to "data 8-bit, without parity, stop 1-bit." To change to another data bit configuration, set the configuration in host communication or loader communication.

If you wish to set the data bit configuration, host communication speed, and communication protocol in host communication or loader communication, first set DIP switch No. 8 to ON.

6. SPECIFICATIONS

■ EtherNet/IP communication

Physical layer:	10BASE-T/100BASE-TX automatic recognition
User layer:	EtherNet/IP
Correspondence message:	Explicit message, I/O message
Connector type:	RJ-45 (2 ports)
IP address:	0.0.0.0 to 255.255.255.255
Subnet mask:	0.0.0.0 to 255.255.255.255

■ Host communication

Interface:	Base on RS-485, EIA standard
Protocol:	RKC communication (ANSI X3.28-1976 subcategories 2.5 and B1) Modbus-RTU
Communication speed:	9600 bps, 19200 bps, 38400 bps, 57600 bps
Maximum connections:	31 modules (including function modules in the SRZ unit)
Connection method:	Terminal block
Termination resistor:	Externally connected

■ Loader communication

Connection method:	Connection with a loader communication cable for our USB converter COM-K2 or COM-KG. (COM-KG are sold separately)
Protocol:	RKC communication (ANSI X3.28-1976 subcategories 2.5 and B1)
Communication speed:	38400 bps
Maximum connections:	One modules

■ General specifications

Power supply voltage:	24 V DC (Rated)
Power supply voltage range:	21.6 V to 26.4 V DC [Including power supply voltage variation]
Power consumption (at maximum load):	150 mA max. (24 V DC) Rush current: 15 A or less

Allowable ambient temperature:	-10 to +55 °C
Allowable ambient humidity:	5 to 95 %RH (Absolute humidity: MAX.W.C 29 g/m³ dry air at 101.3 kPa)
Weight:	Approx. 150 g

■ Standard

Safety standard:	UL: UL 61010-1
	cUL: CAN/CSA-C22.2 No.61010-1
CE/UKCA marking:	EMC: EN61326-1
	RoHS: EN IEC 63000
RCM:	EN55011
Environment conditions:	POLLUTION DEGREE 2 Altitude up to 2000 m (Indoor use)

7. MODEL CODE

COM-ME- 2 5 * 02/□ □
(1)(2) (3) (4) (5)

(1) Network

2: EtherNet/IP

(2) Host communication

5: RS-485

(3) Corresponding to the RKC controller

02: SRZ

(4) Factory setting (Specify a communication protocol)

No code: No need to factory preset a communication protocol. *
1: A communication protocol needs to be factory preset.

(5) Host communication protocol

No code: No need to specify when the factory setting is not required.
1: RKC communication (ANSI X3.28-1976 subcategories 2.5 and B1)
2: Modbus

* Factory setting when "No need to factory preset a communication protocol" is specified.
Host communication protocol: RKC communication

■ Other peripherals and accessories (Sold separately)

- Communication converter COM-KG-1N (Optional: with loader communication cable)
- Communication converter COM-K2-1 (Optional: with loader communication cable)
- End plate (DEP-01, Package of 2 plates)

Ethernet is a registered trademark of Fuji Xerox Co. Ltd.
EtherNet/IP™ is a trademark of ODVA.
Modbus is a registered trademark of Schneider Electric.
Company names and product names used in this manual are the trademarks or registered trademarks of the respective companies.

The first edition: SEP. 2022 [IM000]