Connect your SRZ modules to EtherNet/IP®

Used to connect our SRZ to the EtherNet/IP network.

EtherNet/IP®
Communication Converter

COM-ME-2

CE c(UL)us (RCM) UKCA

Compatible models

SRZ

(Z-TIO-A / Z-TIO-B / Z-DIO / Z-CT)

Example of Connection

PLC

℃

Do not use RKC Loader Communication for process control purpose

Allows initial configuration of the converter and data management for RKC temperature controllers.
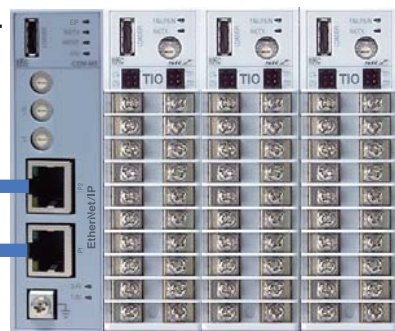
Loader Communication

USB

Temperature Control

SRZ

COM-ME-2   (Z-TIO-A / Z-TIO-B / Z-DIO / Z-CT)

PROTEM 2

Module management software
PROTEM2

Available at RKC homepage

EtherNet/IP®

• • • • • • ■ **Connecting up to 30 modules**

Max of 14 Z-TIO modules with 16 Z-TIO+Z-CT modules.
or
Max of 16 Z-TIO modules with 14 Z-TIO+Z-CT modules.

RS-485

Host Communication

Specification

EtherNet/IP Specification
- Physical layer :10BASE-T/100BASE-TX Automatic recognition
- User layer : EtherNet/IP
- Supported Messaging: Explicit messaging, I/O messaging
- Port spec : RJ-45×2 port
- IP Address : 0.0.0.0～255.255.255.255
  ＊The IP address 127.0.0.1 is reserved as the loopback address.
- Subnet mask : 0.0.0.0～255.255.255.255

Host communication
- Interface : EIA RS—485
- Synchronous method : Start/stop synchronous type
- Communication speed： 9600bps, 19200bps, 38400bps, 57600bps
- Data bit configuration： Start bit: 1
  Data bit: 7 or 8 (MODBUS 8 bit only)
  Parity bit: None, Odd or Even
  Stop bit: 1
- Protocol : 1) ANSI X3.28-1976 subcategories 2.5 and B1
  (RKC Communication)
  : 2) MODBUS-RTU
- Maximum connection : Maximum 30 modules in a combination of
  Z-TIO + Z-DIO + Z-CT; the module number of
  Z-DIO and Z-CT varies depending on the
  total number of Z-TIO modules
  (maximum 16 Z-TIO modules per connection).
- Address setting : ANSI X3.28-1976 : 0 to 99
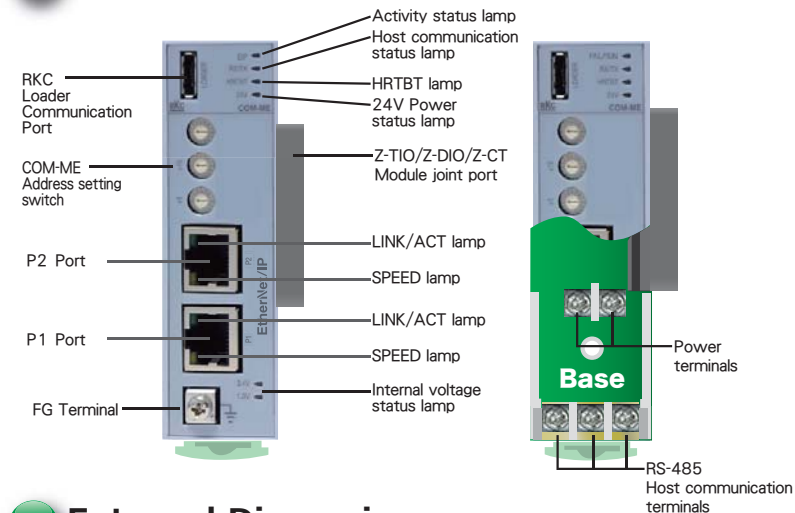 : MODBUS-RTU：01h～FFh
- Terminal type : Screw terminals

Loader communication
- Communication speed： 38400bps
- Maximum connections： 1unit
- Connection with a loader communication cable for
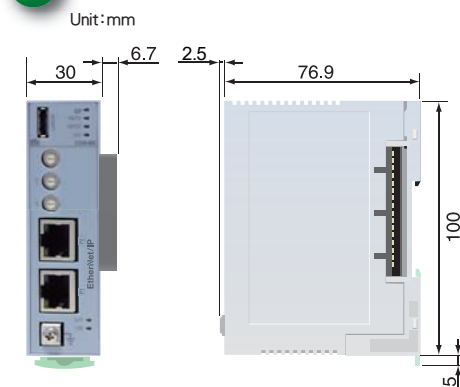 our USB converter COM-KG (sold separately).

General specifications
- Power supply voltage: DC24V
- Current consumption : 150 mA max. Rush current : Less than 15A
- Power failure effect : A power failure of 4m sec or less will not affect the action.
- Memory backup : Back-up by non-volatile meory
  1) Number of writing : 1,000,000 times
  2) Data retaining period: Approx. 10 years
- Allowable ambient temperature ：−10～+55℃
- Allowable ambient humidity ： 5～95%RH
- Weight : Approx. 150 g
- Safety standards:
  1) UL : UL61010-1
  2) cUL : CAN/CSA-22.2 NO.61010-1
  3) CE/UKCA Marking:
     EMC : EN61326-1
     RoHS: EN IEC 63000
  4) RCM : EN55011

Parts Description

- Activity status lamp
- Host communication status lamp
- HRTBT lamp
- 24V Power status lamp
- RKC Loader Communication Port
- COM-ME Address setting switch
- P2 Port
- P1 Port
- FG Terminal
- Z-TIO/Z-DIO/Z-CT Module joint port
- LINK/ACT lamp
- SPEED lamp
- LINK/ACT lamp
- SPEED lamp
- Internal voltage status lamp
- Base
- Power terminals
- RS-485 Host communication terminals

External Dimensions

Unit：mm

30 6.7 2.5 76.9 100 5

Model and Suffix Code

Specifications			Model and Suffix Code ① ② ③ ④ ⑤
			COM-ME-2 5＊02
Mandatory	Network	①	EtherNet/IP 2
	Host communication	②	RS-485 5
	Supported Controller	③	SRZ(Z-TIO-A / Z-TIO-B / Z-DIO / Z-CT) 02
Option	Factory Setting (Choose protocol)	④	None (Communication protocal is not specified)＊ No Code
			Specified (⑤ need to be specified) / 1
	Host Communication Protocol	⑤	＊④ None is chosen and no code is needed No Code
			RKC Communication 1
			MODBUS Communication 2

If factory setting is not specified, the followings are set as default.
-Host communication protocol：RKC Communication