

Converter for connecting Module type temperature controller SRZ series to EtherCAT.

**EtherCAT Communication Converter
COM-ME-3**



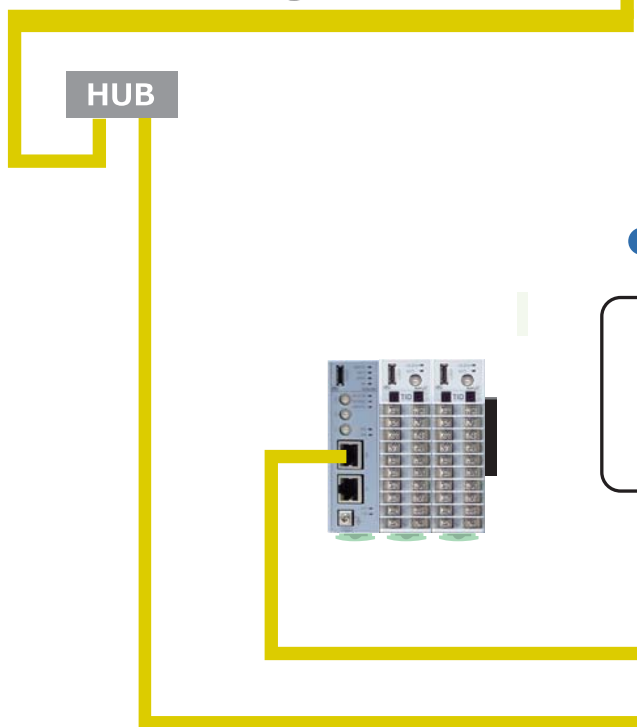
Typical Configuration



Programmable controller (PLC) (EtherCAT master)

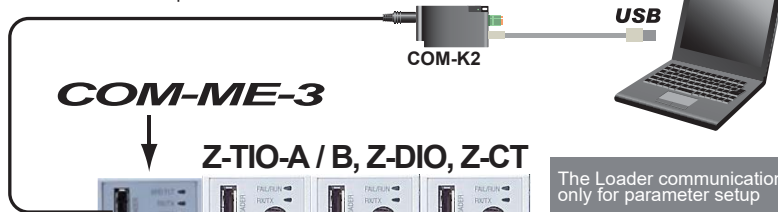


EtherCAT®



Loader Communication

Parameter setup of Z-TIO/Z-DIO/Z-CT



The Loader communication is only for parameter setup

COM-ME-3

Z-TIO-A / B, Z-DIO, Z-CT



- Max. 30 modules
- Z-TIO module : Max. 14 modules
- Z-DIO + Z-CT module : Max. 16 modules or
- Z-TIO module : Max. 16 modules
- Z-DIO + Z-CT module : Max. 14 modules

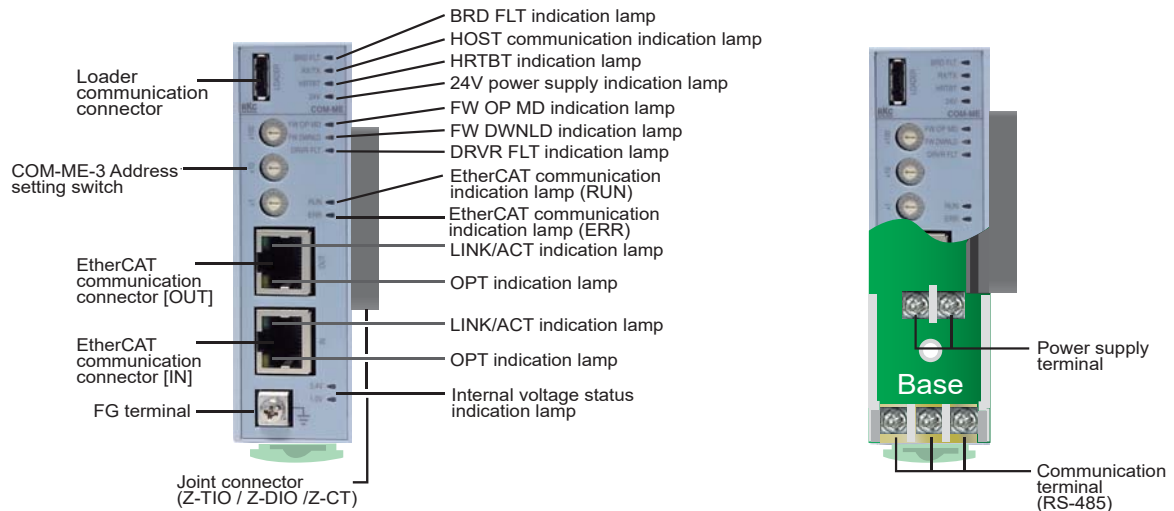


Host Communication

RS-485
RKC communication or Modbus

**Temperature Control
SRZ**

Explanation of the Front Panel



Specifications

EtherCAT communication

Device type : No profile
 Physical layer: 100BASE-TX
 User layer: EtherCAT
 Correspondence protocol: CAN application protocol over EtherCAT
 Communication object: SDO, PDO
 Connector type: RJ-45 (2 ports)
 PDO data length : Max. 1024byte
 Both RxPDO (Output) and TxPDO (Input)
 Synchronous mode : Free Run

Loader communication

Communication speed: 38400 bps
 Maximum connections: 1 unit
 Connection with a loader communication cable for our USB converter COM-K2 (sold separately).

Host communication

Interface: RS-485
 Synchronous method: Start/stop synchronous type
 Communication speed: 9600 bps, 19200 bps, 38400 bps, 57600 bps
 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: ANSI X3.28-1976 subcategories 2.5 and B1 MODBUS-RTU
 Maximum connections: 31 units (Including Z-TIO, Z-DIO, Z-CT unit)
 Address setting: ANSI X3.28-1976 : 0 to 99 (Setting by loader communication)
 MODBUS-RTU : 1 to 255 (Setting by loader communication)
 Terminal type : Screw terminals

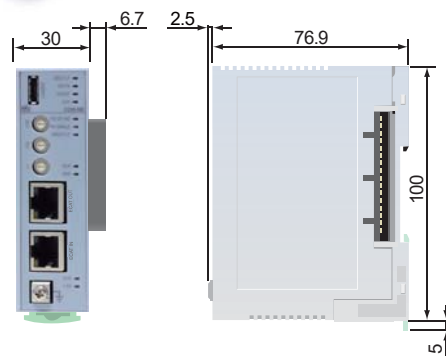
General specifications


Power supply voltage : 24V DC
 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
 a) Number of writing : 1,000,000 times
 b) Data retaining period : Approx. 10 years
 Allowable ambient temperature: -10 to +55°C
 Allowable ambient humidity : 5 to 95 %RH
 (Absolute humidity: MAX.W.C 29.3 g/m³ dry air at 101.3 kPa)
 Weight : Approx. 150 g

Model and Suffix Code

Specifications	Model and Suffix Code		
	COM-ME	-3 5*02	
Network communication	EtherCAT	3	
Host communication	RS-485	5	
Corresponding to the RKC controller	SRZ (Z-TIO-A / Z-TIO-B, Z-DIO, Z-CT)		02

External Dimensions



 <p>• Before operating this product, read the instruction manual carefully to avoid incorrect operation. • This product is intended for use with industrial machines, test and measuring equipment. It is not designed for use with medical equipment. • If it is possible that an accident may occur as a result of the failure of the product or some other abnormality, an appropriate independent protection device must be installed.</p>	Caution for the export trade
	All transactions must comply with laws, regulations, and treaties.
	Caution for imitated products
	As products imitating our product now appear on the market, be careful that you don't purchase these imitated products. We will not warrant such products nor bear the responsibility for any damage and/or accident caused by their use.

RKC® **RKC INSTRUMENT INC.**
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