

Remote I/O Expansion Unit

ARX Series

INSTRUCTION MANUAL

TCD250028AA

Autonics

Thank you for choosing our Autonics product.

Read and understand the instruction manual and manual thoroughly before using the product.

For your safety, read and follow the below safety considerations before using.

For your safety, read and follow the considerations written in the instruction manual, other manuals and Autonics website.

Keep this instruction manual in a place where you can find easily.



Visit Autonics website (www.autonics.com or QR code) for the latest information. Manuals, CAD files, certifications, software, etc. are available. The dimensions, specifications, certifications, etc. are subject to change without notice for product improvement. Certain models may be discontinued without notice.

Safety Considerations

- Observe all 'Safety Considerations' for safe and proper operation to avoid hazards.
- ⚠ symbol indicates caution due to special circumstances in which hazards may occur.

⚠ Warning Failure to follow instructions may result in serious injury or death.

- Fail-safe device must be installed when using the unit with machinery that may cause serious injury or substantial economic loss. (e.g. nuclear power control, medical equipment, ships, vehicles, railways, aircraft, combustion apparatus, safety equipment, crime/disaster prevention devices, etc.)**
Failure to follow this instruction may result in personal injury, economic loss or fire.
- Do not use or store the unit in the place where flammable/explosive/corrosive gas, high humidity, direct sunlight, radiant heat, vibration, impact or salinity may be present.**
Failure to follow this instruction may result in explosion or fire.
- Do not disassemble or modify the unit.**
Failure to follow this instruction may result in fire.
- Do not connect, repair, or inspect the unit while connected to a power source.**
Failure to follow this instruction may result in fire.
- Check 'Connections' before wiring.**
Failure to follow this instruction may result in fire.

⚠ Caution Failure to follow instructions may result in injury or product damage.

- Use the unit within the rated specifications.**
Failure to follow this instruction may result in fire or product damage.
- Use a dry cloth to clean the unit, and do not use water or organic solvent.**
Failure to follow this instruction may result in fire or electric shock.
- Keep the product away from metal chip, dust, and wire residue which flow into the unit.**
Failure to follow this instruction may result in fire or product damage.
- Do not cut off power or disconnect connectors while operating the unit.**
Failure to follow this instruction may result in fire or malfunction.

Cautions during Use

- Follow instructions in 'Cautions during Use'. Otherwise, it may cause unexpected accidents.
- The power supply should be insulated and limited voltage/current or Class 2, SELV power supply device.
- Use only designated connector and do not apply excessive power when connecting or disconnecting the connectors.
- Keep away from high voltage lines or power lines to prevent inductive noise.
In case installing power line and input signal line closely, use line filter or varistor at power line and shielded wire at input signal line. Do not use near the equipment which generates strong magnetic force or high frequency noise.
- Do not connect or disconnect the expansion unit when power is being supplied.
- This unit may be used in the following environments.
 - Indoors (in the environment condition rated in 'Specifications')
 - Altitude max. 2,000 m
 - Pollution degree 2
 - Installation category II

Ordering Information

This is only for reference, the actual product does not support all combinations. For selecting the specified model, follow the Autonics website.

AR	①	-	②	③	④	⑤	-	⑥
① Network X: Expansion unit - DeviceNet / Modbus compatible			④ I/O points 08: 8-point			⑤ I/O specifications N: NPN open collector P: PNP open collector		
② Type D: Digital			③ I/O configuration I: Input O: Output			⑥ Terminal type 4S: Sensor connector (4-pin socket)		

Product Components

- Product
- Instruction manual
- Expansion connector

Sold Separately

- Sensor connector: CNE Series

Supported Devices

For proper use of the product, refer to the manual of each Series and be sure to follow the safety considerations in the manuals.

Download the manuals from the Autonics website.

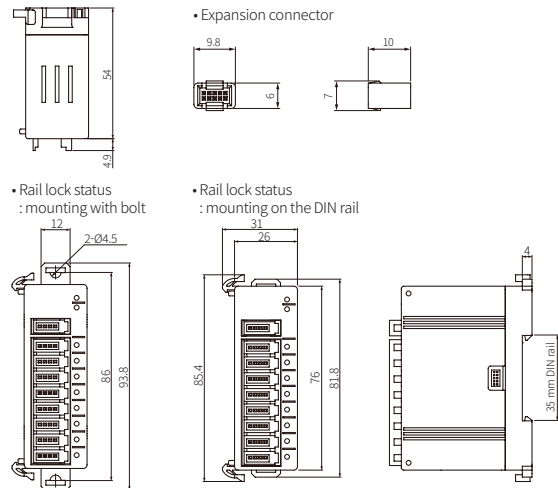
- DeviceNet remote I/O ARD-D Series (Sensor connector type) basic unit
- Modbus remote I/O ARM Series basic unit

Connect Expansion Unit

- Turn OFF the power of a basic unit.
- Remove the cover of the expansion connector (accessory of the expansion unit) with nippers.
- Mount the expansion connector and connector input part of the expansion unit.
- Connect the expansion unit to the connector output part of the basic unit.
- Power on the basic unit, recognizing the expansion unit.

Dimensions

- Unit: mm, For the detailed drawings, follow the Autonics website.



Unit Descriptions

- Connector input part**
For connecting the basic and expansion units
- I/O status indicator**
For I/O status
Input: Green LED ON /
Output: Red LED ON
- Rail lock**
For the DIN rail and panel mount
- Connector output part**
For connecting the expansion unit
- Sensor connector**
For I/O with the external device
- External power connector**
For connecting the external power