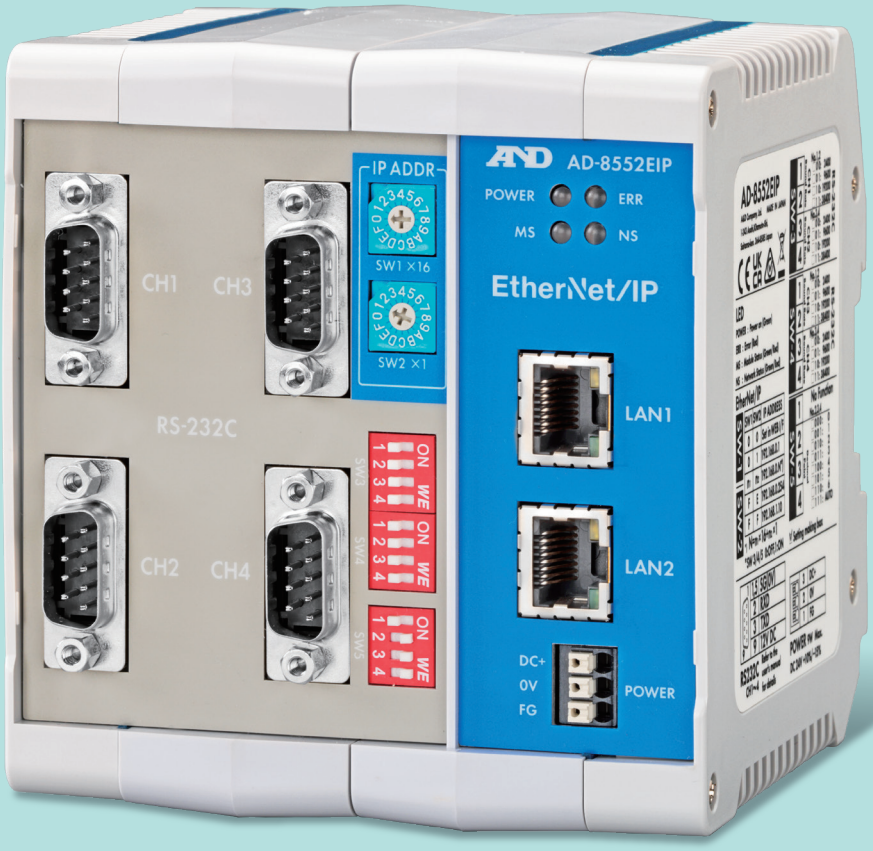
RS-232C to EtherNet/IP Converter

AD-8552EIP

EtherNet/IP™



Quick solution to using EtherNet/IP for weighing instruments

ISO 9000 CERTIFIED

A&D Company, Ltd.

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Opening the Gateway to Streamlined EtherNet/IP Networks for In-line Weighing Systems

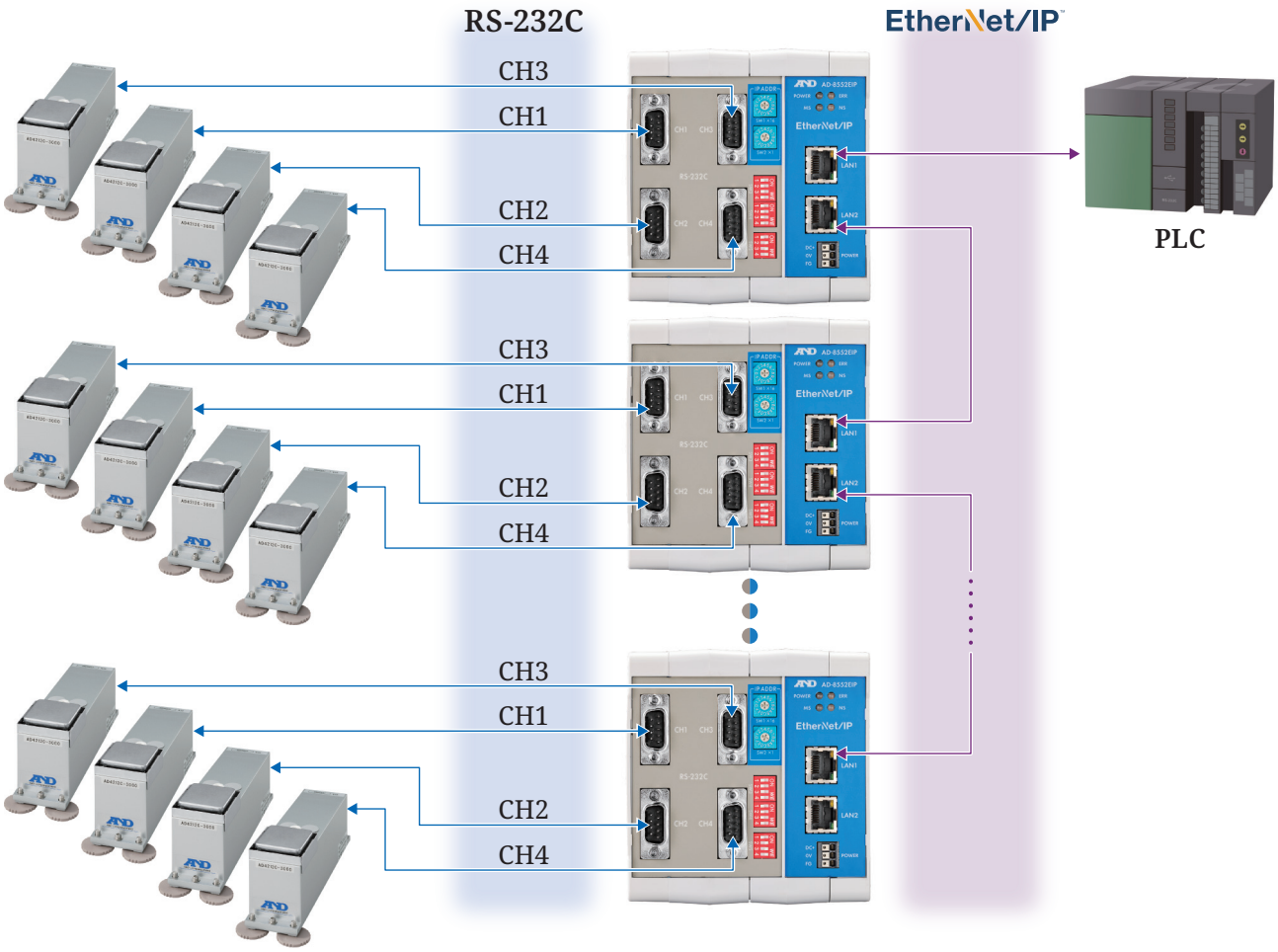
With the AD-8552EIP, you can easily establish data communication between a PLC and weighing instruments on a production line using EtherNet/IP. Notably, when an AD-4212C/AD-4212D weigh module is connected, the PLC can perform operations such as changing response speed and adjusting sensitivity, in addition to reading weighing values and resetting the display to zero.

Scalability with multiple connectors

Having four D-Sub 9-pin connectors, one AD-8552EIP can communicate with up to four weighing instruments via RS-232C cables, which saves space and cost. Furthermore, since it has two RJ-45 connectors, more than one AD-8552EIP*1 can be connected to one PLC by daisy-chain connection*2 via LAN cables.

*1 The maximum number of units that can be connected depends on the user's network, PLC, and router processing capacity, etc., and cannot be stated in general terms.

*2 Star connection through a hub, or a combination of star and daisy-chain connections, can also be employed.



- The AD-8552EIP supports Auto MDI-X/MDI and allows use of either crossover or straight-through LAN cables*3 for EtherNet/IP connection.

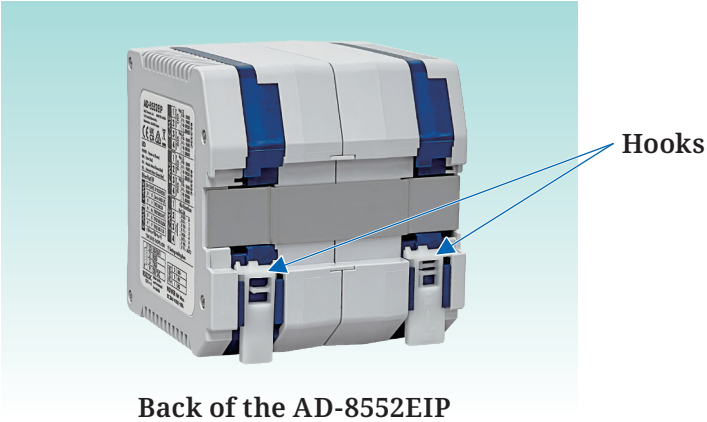
*3 LAN cables are not included as standard. Please use commercially-available LAN cables.

- If the connected weighing instrument is the AD-4212C/AD-4212D, GX-A(E/WP)/GF-A(WP), HR-AZ/HR-A, FZ-i(WP)/FX-i(WP), or EK-L, the AC adapter for the weighing instrument is unnecessary because the AD-8552EIP supplies power, simplifying wiring.*4

*4 The separately-sold RS-232C cable, AX-KO2741-180, is required for supplying power to weighing instruments other than the AD-4212C/AD-4212D.

Hooks on the back for DIN-rail mounting

The AD-8552EIP is designed to allow one-touch installation and fastening to DIN rails.



Back of the AD-8552EIP

Installation image

Status/error indications by four LED lamps

The status of connections and operations, and whether there are any abnormalities can be checked and addressed at a glance.

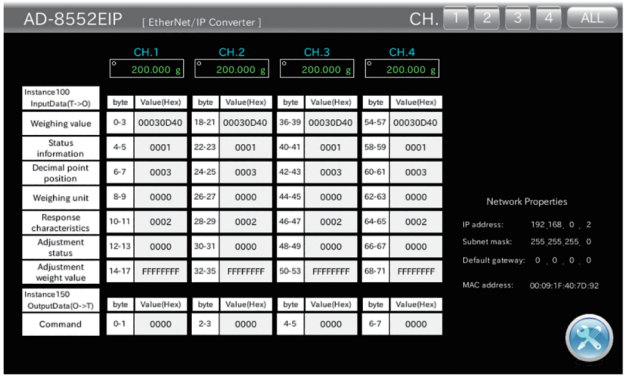
Status LED lamps

Web interface for operational checks

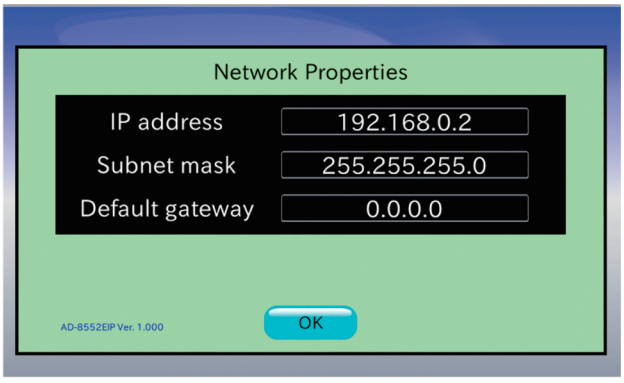
By connecting the AD-8552EIP to a PC, you can set an arbitrary IP address, operate connected weighing instrument(s), and display their weighing values and data layouts on a web browser. This is especially convenient for checking operations when starting up a production line or troubleshooting.*5

*5 It is not advised to establish communication for the web interface and for EtherNet/IP at the same time due to possible conflicts. Also, monitoring weighing data with a constant connection is not recommended because communication may become unstable due to the environment and other factors.

Home screen

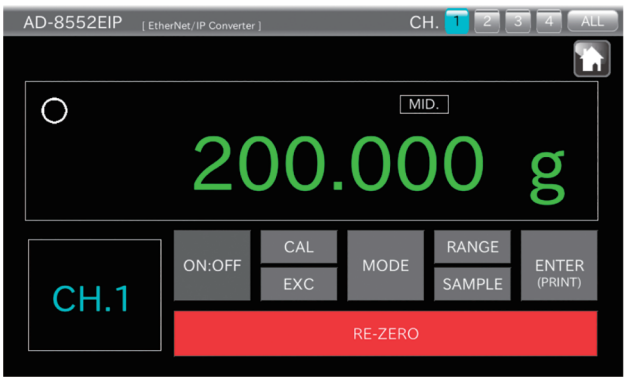


Network setting screen*6



*6 IP address allocation is also possible to a limited extent using switches on the AD-8552EIP.

Weighing screen (1-channel display)



Weighing screen (4-channel display)

Specifications

General

Power supply voltage	DC 24 V +10%, -15%
Power consumption	9 W max. (when power is supplied to 4 weighing instruments)
Communication interface	RJ-45 × 2 (for EtherNet/IP) D-Sub 9-pin, male × 4 (for RS-232C)
Operating environment	0 to 50 °C (32 to 122 °F), 85% RH or less (no condensation)
External dimensions	105 (W) × 112 (H) × 103 (D) mm
Net weight	Approx. 440 g

Communication (EtherNet/IP)

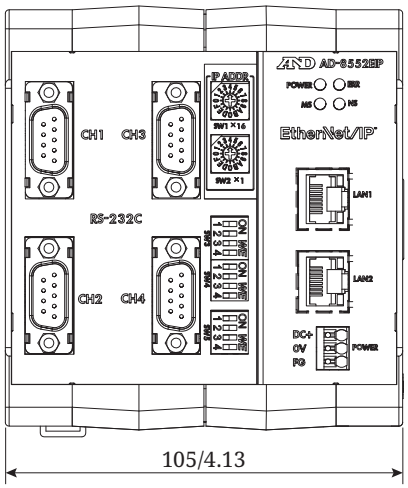
Communication standard	EtherNet/IP (CT18 compliant)
Vendor ID	188
Device type	43 (0×2B) : Generic Device
Transmission speed	10/100 Mbps (auto negotiation)
Communication method	Full/half duplex (auto negotiation)

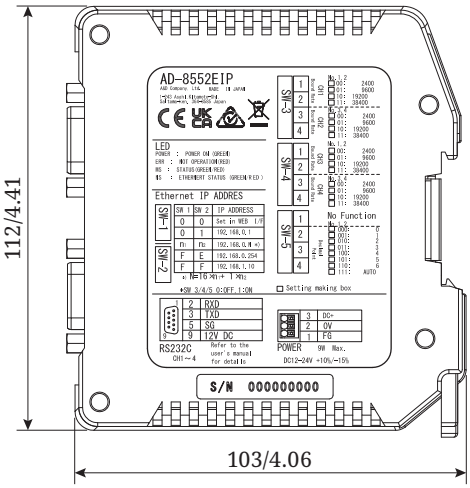
Communication (RS-232C)

Baud rate	2400*i, 9600, 19200, 38400 bps
Data length	7 bits (fixed)
Parity	Even (fixed)
Terminator	<CR><LF> (fixed)

***i** Factory setting

Dimensions (mm/inches)





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