

Weighing Indicator / Transmitter

AD-4411 Series



High-Speed, High-Precision Measurement for Every Industrial Scene

HOUSING

DIN Rail Mount



Panel Mount



INTERFACE

EtherNet/IP

BCD output

PROFINET

RS-485/Modbus RTU

EtherCAT

RS-232

Analog output

The AD-4411 is a weighing indicator/transmitter that converts signals from load cells with high speed and precision, enabling connection to PLCs. It supports efficient system construction by integrating weighing instruments into industrial control systems in factories and plants.



EtherNet/IP



EtherCAT

Weight Transmitter AD-4411 Series

A&D
A&D Company, Ltd.

The AD-4411 reliably and efficiently supports your “weighing” needs.

High-Speed, High-Accuracy Weighing for Improved Productivity

High speed AD conversion of 1200 times/s

Enables high speed, high accuracy weighing.

Equipped with HPDF (High Performance Digital Filter)

Significantly reduces the cost and maintenance of anti-vibration equipment by effectively handling vibrations without extensive mechanical countermeasures, ensuring stable and accurate weighing on production lines.



Easy and Tool-Free Installation

Tool-free mounting for both panel mount and DIN rail mount types

Unlike conventional indicators that require a screwdriver, the AD-4411 models can be easily installed without screws. The DIN rail type features a uniquely engineered slide-hook mechanism



Original slide-hook design for easy mounting (DIN rail mount type)

Flexible load cell connection

Built-in jumper enables software-based switching between 4-wire and 6-wire load cell connections, reducing installation effort.

Easy Setup and Maintenance for Smooth Introduction and Operation

Easy setting updates from a PC

Settings can be easily modified from a PC via the rear USB Type-C port and dedicated software (WinCT-AD4411).

Backup and copy settings

Save settings to a PC and easily export them to other units, greatly streamlining setup for multiple device installations.

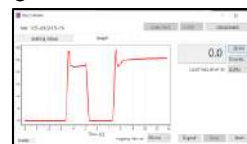
Real-time waveform monitoring

Monitor measured values graphically in real-time to visually understand the effects of the digital filter and other parameters.



WinCT-AD4411

A free Windows application that allows setting changes, copying, backup, and monitoring of the AD-4411.



Weight Transmitter

AD-4411 Series



Wide Lineup

Multiple models available to meet diverse market demands and system requirements.

Mounting Options:

Supports both panel mount and DIN rail mount configurations for flexible installation.

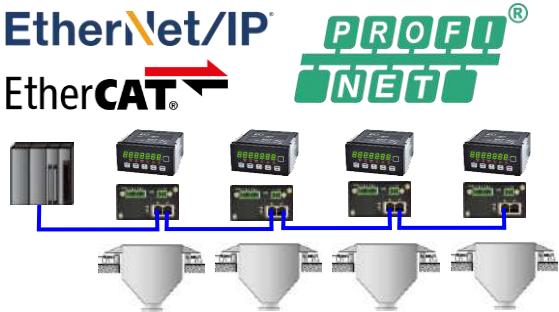
Interface Variants:

Available with a range of communication interfaces including:
Industrial Ethernet: EtherNet/IP, PROFINET, EtherCAT
Conventional Interfaces: BCD output, RS-232C, RS-485/Modbus RTU, analog output

		Mount Type	
		Panel Mount	DIN-rail Mount
Interface	EtherNet/IP	AD-4411-EIP	AD-4411-EIP-DIN
	PROFINET	AD-4411-PRT	AD-4411-PRT-DIN
	EtherCAT	AD-4411-ECT	AD-4411-ECT-DIN
	BCD output	AD-4411-BCD	-
	RS-232C	AD-4411-232	-
	RS-485/Modbus RTU	AD-4411-485	-
	Analog output	AD-4411-DAC	-

Panel Mount & Industrial Ethernet-Compatible Models

- Model Names:** AD-4411-EIP (EtherNet/IP)
AD-4411-PRT (PROFINET)
AD-4411-ECT (EtherCAT)
- Features:**
 - Industrial Ethernet Support: EtherNet/IP, PROFINET, and EtherCAT
 - Daisy Chain Connection: Two communication ports enable daisy chain connection without a switching hub



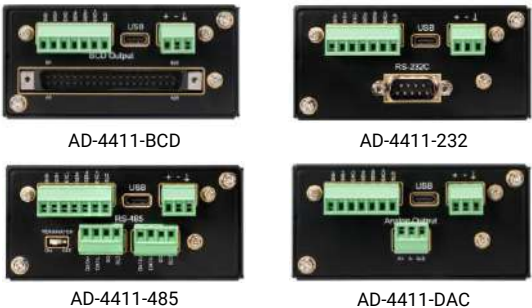
DIN Rail Mount & Industrial Ethernet-Compatible Models

- Model Names:** AD-4411-EIP-DIN (EtherNet/IP)
AD-4411-PRT-DIN (PROFINET)
AD-4411-ECT-DIN (EtherCAT)
- Features:**
 - Industrial Ethernet Support: EtherNet/IP, PROFINET, and EtherCAT
 - Daisy Chain Connection: Two communication ports enable daisy chain connection without a switching hub
 - DIN Rail Installation: Uniquely engineered slide-hook mechanism allows for one-handed installation
 - Dedicated to Signal Conversion: Ideal for use solely as a load cell transmitter, not as a weighing indicator



Panel Mount & Conventional Communication Interface-Compatible Models

- Model Names:** AD-4411-BCD
AD-4411-232
AD-4411-485
AD-4411-DAC
- Features:**
 - Compatibility with Existing Systems: Supports conventional interfaces such as BCD, RS-232C, RS-485/Modbus RTU, and analog output (4–20 mA / 0–10 V)



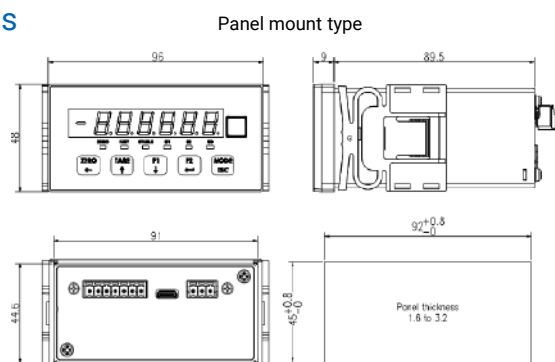
Weight Transmitter AD-4411 Series



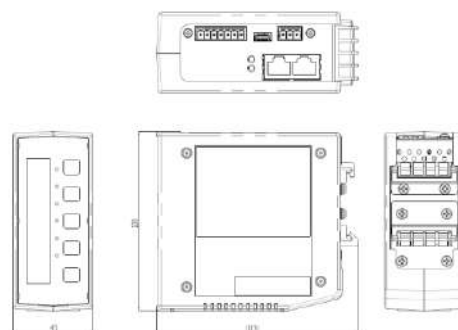
Specifications

Housing type		Panel mount type (AD-4411-xxx)	DIN rail mount type (AD-4411-xxx-DIN)
Dimensions		96 (W) x 48 (H) x 98.5 (D) mm	45 (W) x 100 (H) x 113 (D) mm
Operating temperature and humidity range		-10 to 40 °C Less than 85 % RH, non-condensing	
IP rating		Outside of the control panel: IP65 Inside of the control panel: IP2X	IP2X
Power supply	Power supply voltage	24 VDC -15% to +10%	
	Power consumption	4.5 W max	
Load cell input	Excitation voltage	5 VDC $\pm 5\%$ 90 mA Up to six 350 Ω load cells can be connected in parallel. 6-wire type with remote sensing	
	Signal input range	-7.0 mV/V to 7.0 mV/V	
	Minimum input sensitivity	0.15 $\mu\text{V}/\text{d}$ or more (d=minimum division)	
	Nonlinearity	0.005 % of F.S. max.	
	Temperature coefficient	Zero drift: $\pm 0.02 \mu\text{V}/^\circ\text{C}$ Typ. $\pm 0.1 \mu\text{V}/^\circ\text{C}$ max. Span drift: $\pm 3 \text{ ppm}/^\circ\text{C}$ Typ. $\pm 15 \text{ ppm}/^\circ\text{C}$ max.	
	Sampling rate	1200 times/s	
Display	Main display	7-digit LED (green) with character height of 10 mm	
	Status display	LED (red) x 6	
	Unit	Attach the g / kg / t label	-
Key switches		x 5	
Interface		EtherNet/IP (AD-4411-EIP) PROFINET (AD-4411-PRT) EtherCAT (AD-4411-ECT) BCD output (AD-4411-BCD) RS-485 2W/ (AD-4411-485) Modbus RTU RS-232C (AD-4411-232) Analog output (AD-4411-DAC)	EtherNet/IP (AD-4411-EIP-DIN) PROFINET (AD-4411-PRT-DIN) EtherCAT (AD-4411-ECT-DIN)
Maintenance interface		USB Type C Backup and logging via free PC app (WinCT-AD4411)	

Drawings



DIN rail mount type



Discover Precision

A&D Company, Ltd. (JAPAN)
URL: aand.jp

A&D Engineering, Inc. (USA)
URL: andonline.com

A&D Australasia Pty Ltd. (Australia)
URL: andaustralasia.com.au

A&D Instruments Ltd. (United Kingdom)
URL: andprecision.com

A&D Korea Ltd. (South Korea)
URL: andk.co.kr

A&D Rus Co., Ltd. (Russia)
URL: and-rus.ru

A&D Instruments India (P) Ltd. (India)
URL: aandindia.in

A&D Sciencetech Taiwan Ltd. (Taiwan)
URL: aand.com.tw

A&D Instruments Thailand Ltd. (Thailand)
URL: thai.andprecision.com

A&D Technology Trading (Shanghai) Co., Ltd. (China)
URL: aandtech.cn

NOTE: Appearance and specifications are subject to change for improvement without notice.