Check Weighing Indicator

AD4412-CW

7” high-visibility touch panel color LCD
Up to 1,000 registered items
4000 times/second high-speed sampling
A/D resolution 16,000,000 counts

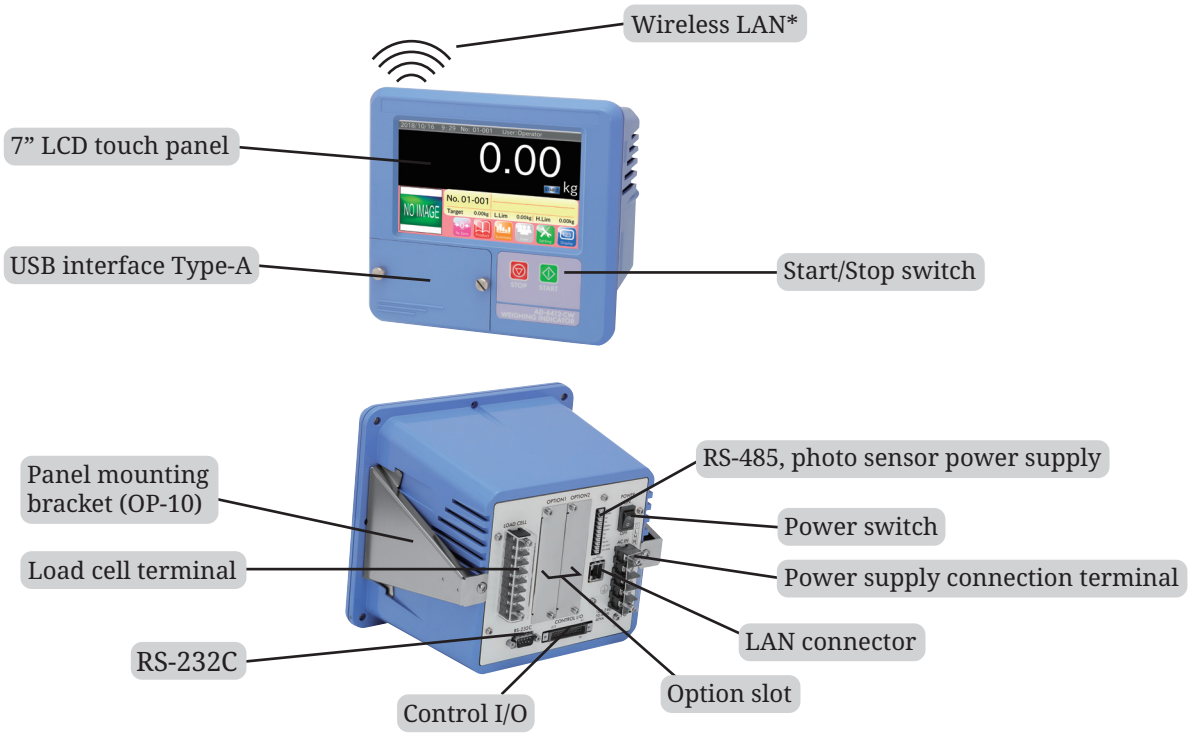
A&D Company, Ltd.

Discover Precision

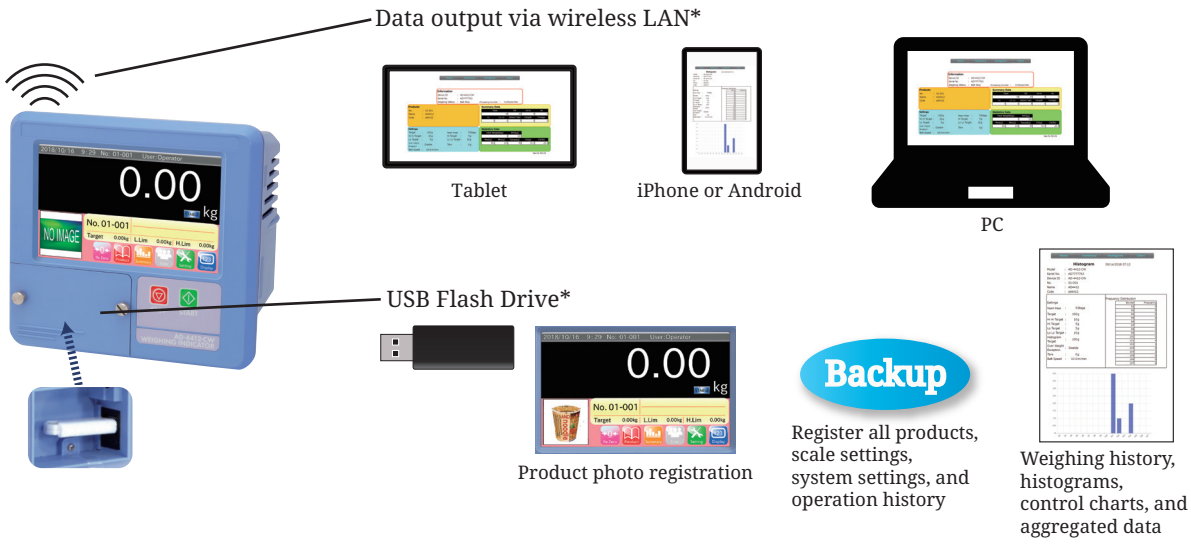
http://www.aandd.jp

AD4412-CW Check Weighing Indicator

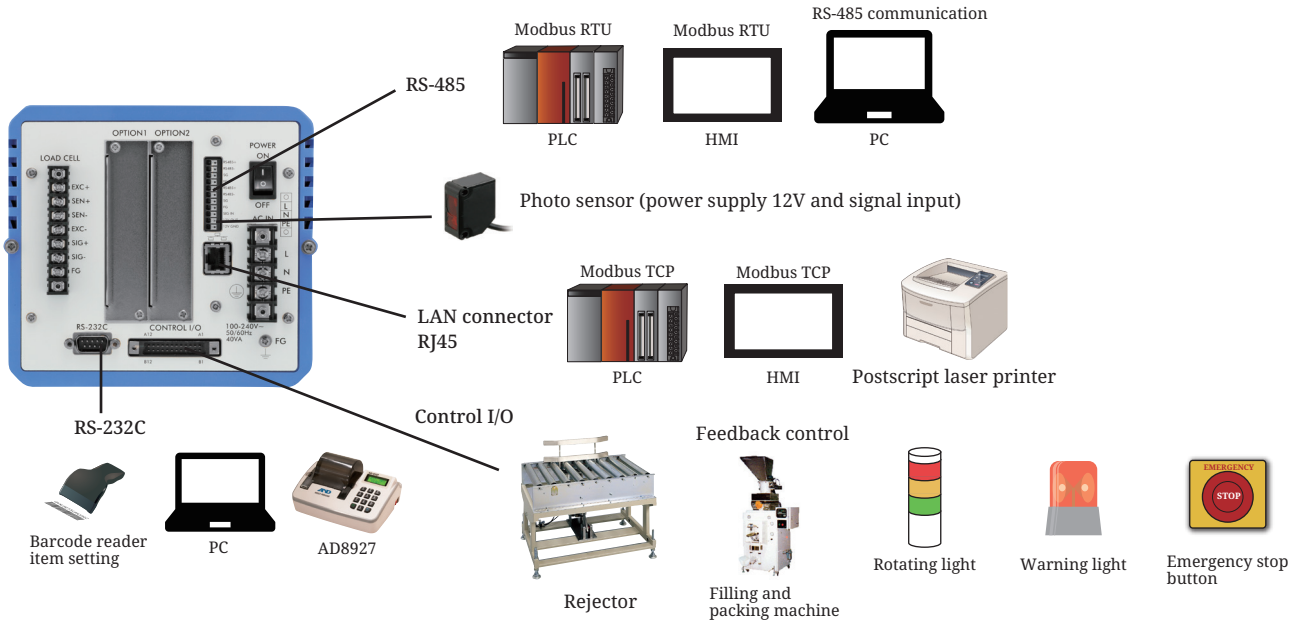
- Feedback control
- Three types of weighing modes: Passing, Stopping, and Static Weighing
- Reports for operational history, weighing history, histogram, control charts, and summary reports.
- Display various data on smartphones and tablets over wireless LAN during measurement.
- Item photo import from a USB Flash Drive
- Easy setting restoration using a USB Flash Drive.
- Save data to a USB Flash Drive and import it to personal computer.
- Dust/water protection for the IP65 display when mounted on a panel with OP-10.



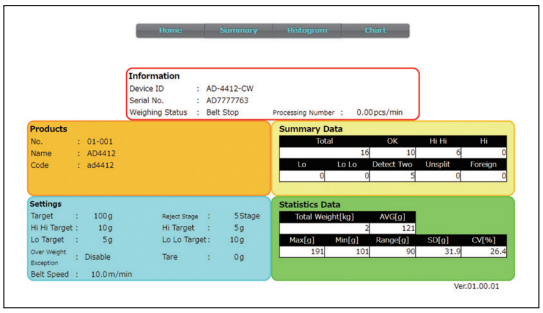
*Wireless LAN can be used depending on the regulations of your region.

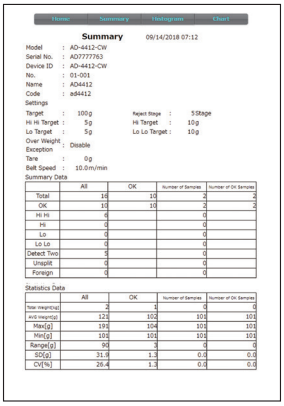


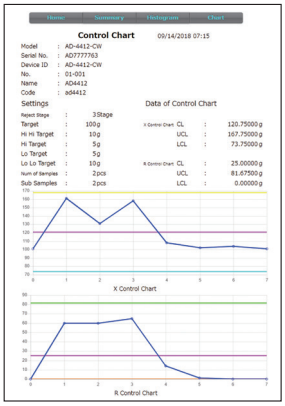
*Wireless LAN can be used depending on the regulations of your region.
*A USB Flash Drive not included as a standard accessory.



Data Output via Wireless LAN*







The measurement results, setting conditions, and statistical data can be checked at any time without stopping the checkweigher.
The X control chart and R control chart can be used to understand the trends of measurement values, and check the effect of feedback control.

*Wireless LAN can be used depending on the regulations of your region.

Operational History

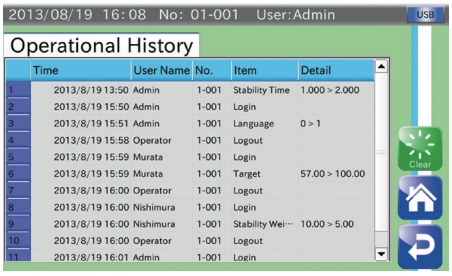
The history of configuration changes can be recorded and displayed.
This is suitable for use in HACCP programs along with the weighing history function.

Users can be registered and the scope of their permitted operations can be controlled according to 4 management levels.

[Operator]
[Supervisor]
[Quality Manager]
[Administrator]

By assigning each user to the appropriate level of access, inadvertent operations can be avoided.*2

* 2 "Operator" is set when the power is turned on.



Weighing History

Weighing results are automatically recorded to a USB Flash Drive during weighing.
Output data: date, time, group product number, weight data, and judgments.

Only USB Flash Drive formatted in FAT32 can be used.The weighing history that is output to the USB Flash Drive is saved in the memory root in CSV format.

USB Flash Drive
Approx. 6MB of memory is required for 8 hours of operation at the maximum throughput (320pcs/min.)
Approx. 7GB of memory is required for 24-hour/365-day operation.
*A USB Flash Drive not included as a standard accessory.

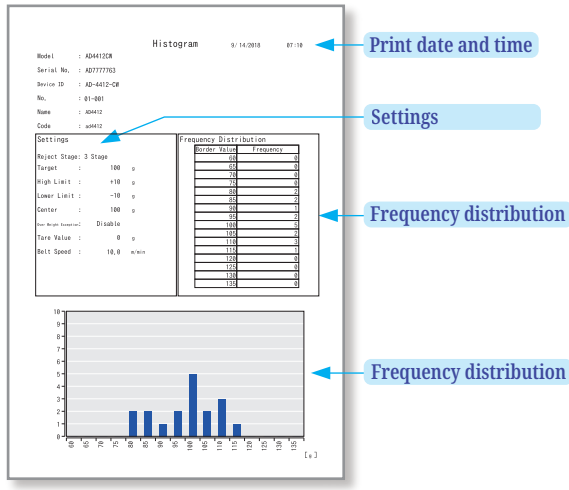
Weighing history output example

2016/10/3, 19:45:52, 40, 01–001, 100.05, 0K
2016/10/3, 19:45:56, 54, 01–001, 150.1, Over
2016/10/3, 19:46:00, 58, 01–001, 70.5, Under
2016/10/3, 19:46:04, 52, 01–001, 0.0, Detect
2016/10/3, 19:46:08, 56, 01–001, 0.0, Unsplit
2016/10/3, 19:46:12, 60, 01–001, 100.5, Metal
2016/10/3, 19:46:16, 54, 01–001, 105.1, Ext 1
2016/10/3, 19:46:20, 78, 01–001, 95.5, Ext 2

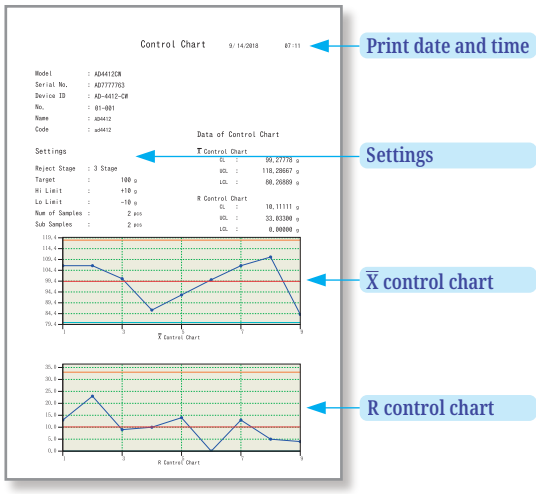
Histograms, Control Charts, and Summary Reports

After weighing, press the PDF key on the summary display.
A PDF report is output to a USB Flash Drive.
The same reports can be printed out by pressing the PRINT key when a PostScript printer is connected to the checkweigher.

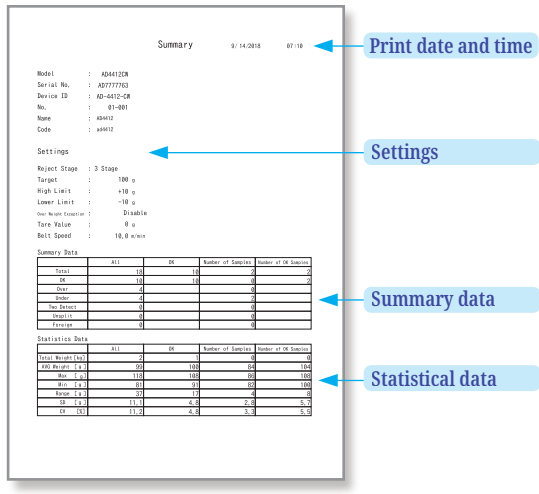
Histogram printing example



Control chart printing example



Summary results printing example



Dump Print Printing Sample

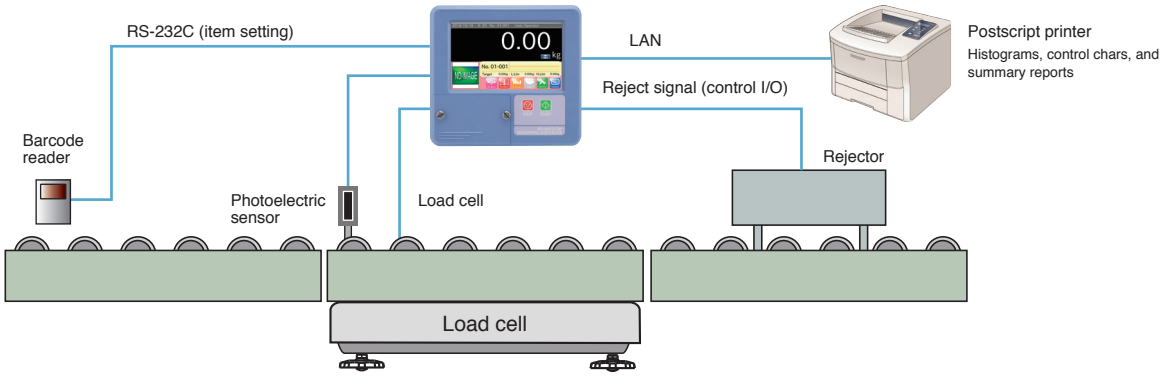
Compact printer AD8127

Character specifications	7 × 9 dots, 1.6 (W) × 3.2 (H) mm
Printing speed	Approx. 1.6 lines/second
Paper feeding speed	Approx. 4 lines/second
Number of characters printed	24 characters/line
Printer paper width	57.5 mm
Operating environment	0 to 40°C/32 to 104°F, 35 to 85%RH (no condensation)
Storage environment	–20 to 60°C/–4 to 140°F, 10 to 90%RH (no condensation)
Interface	RS-232C (D-Sub 9P, male) / Current loop (DIN)
Power supply	AC adapter
Size / weight	174 (W) × 141 (D) × 87 (H) mm / approx. 500 g

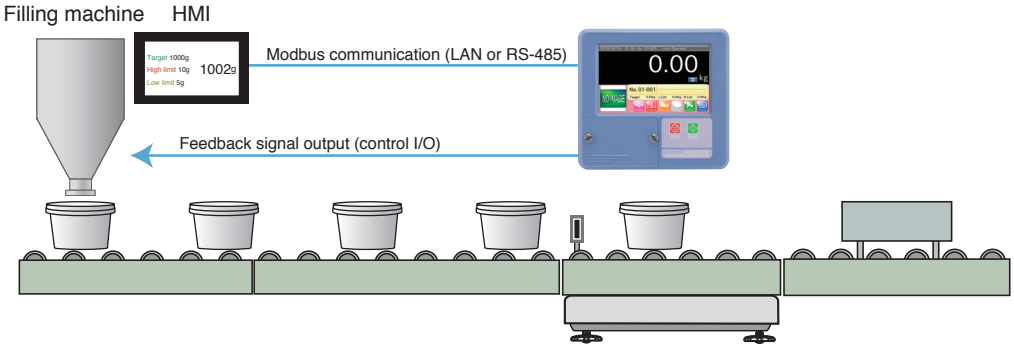
```
******** TOTAL ********
Date:          2019/05/17
Time:            13:11:02

Model:         AD-4412-CW
Serial No:     1R0000001
Identification Name:
0123456789abcdef9hij


SETTINGS

NO.                 01-001
Name
0123456789abcde

Code
0123456789abcdef9hij

Reject Stage:      3 Stage
Target:       +01234.56 g
Hi Limit:     +01234.56 g
Lo Limit:     +01234.56 g
Reject Over:       Disable
Tare Value:   +01234.56 g
Belt Speed:     80.0m/min

SUMMARY DATA

Total:           12345 pcs
OK:              12345 pcs
Hi:              12345 pcs
Lo:              12345 pcs
Detect Two:      12345 pcs
Unsplit:         12345 pcs
Foreign:         12345 pcs

STATISTICS DATA

Total Weight:
                +012345.6kg
Average:        +01234.56 g
Max Weight:     +01234.56 g
Min Weight:     +01234.56 g
Range:          +01234.56 g
SD:             +0123.456 g
CV:             +0123.456 %
```

```
* OK(Number of Samples)*
Date:          2019/05/17
Time:            13:11:02

Model:         AD-4412-CW
Serial No:     1R0000001
Identification Name:
0123456789abcdef9hij


SETTINGS

NO.                 01-001
Name
0123456789abcde

Code
0123456789abcdef9hij

Reject Stage:      3 Stage
Target:       +01234.56 g
Hi Limit:     +01234.56 g
Lo Limit:     +01234.56 g
Reject Over:       Disable
Tare Value:   +01234.56 g
Belt Speed:     80.0m/min

SUMMARY DATA

Total:           12345 pcs
OK:              12345 pcs


STATISTICS DATA

Total Weight:
                +012345.6kg
Average:        +01234.56 g
Max Weight:     +01234.56 g
Min Weight:     +01234.56 g
Range:          +01234.56 g
SD:             +0123.456 g
CV:             +0123.456 %
```

Applications

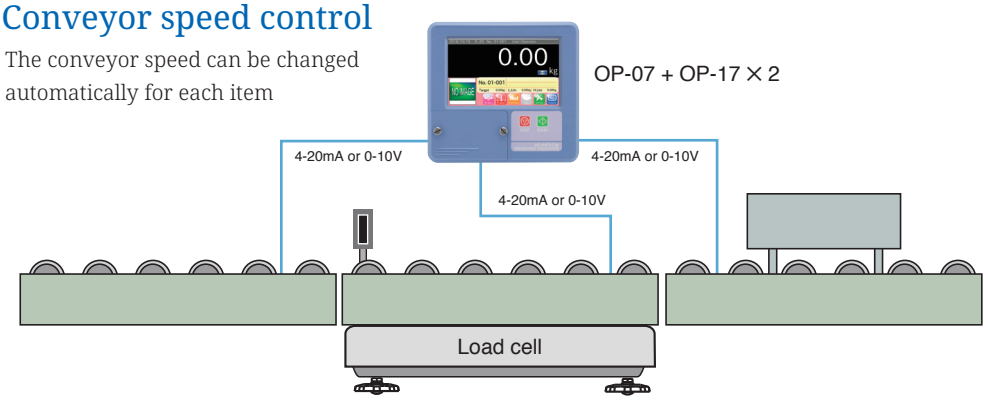


● feedback control

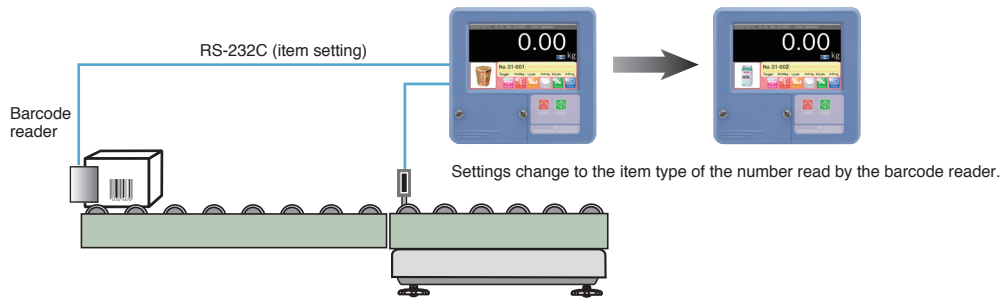


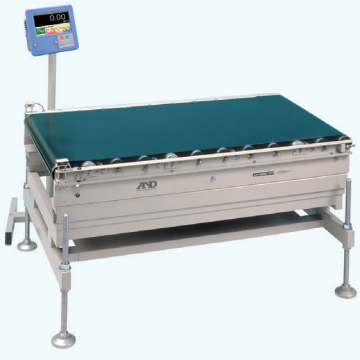
● Conveyor speed control

The conveyor speed can be changed automatically for each item



● Item is set in the barcode reader





Specifications

Analog unit

Input sensitivity	Over 0.15μV/d (d=minimum division)
Zero adjustment range	–35mV to +35mV (–7mV/V to +7mV/V)
Load cell excitation	DC 5V 60mA up to 4 load cells (350Ω) Remote sensing function included
Temperature coefficients	Zero: ±0.02μV/˚C (Typ.) Span: ±3ppm/˚C (Typ.)
Nonlinearity	0.005% of F.S.
Sampling rate	4000 times per second
A/D resolution	Approx. 16,000,000

Digital unit

Number of digits	999,999 d
Display	7” color TFT LCD with touch panel

Registered items

Registered items	1,000

General specifications

Power source voltage	AC100V - 240V (+10%, -15%, 50/60Hz, 30VA)
Operating temperature	–10˚C to 50˚C
Operating humidity	85% RH or less (no condensation)
Dust/water protection	The IP65 display when mounted on a panel (requires OP-10).

Standard Interface

Communication interface	RS-232C, RS-485, LAN, USB2.0, Wireless LAN*
Control I/O	Input 11 points (non-voltage connection point or open collector) Output 11 points (open collector) DC40V 50mA
Power supply for photo sensor	12V 250mA

*Wireless LAN can be used depending on the regulations of your region.

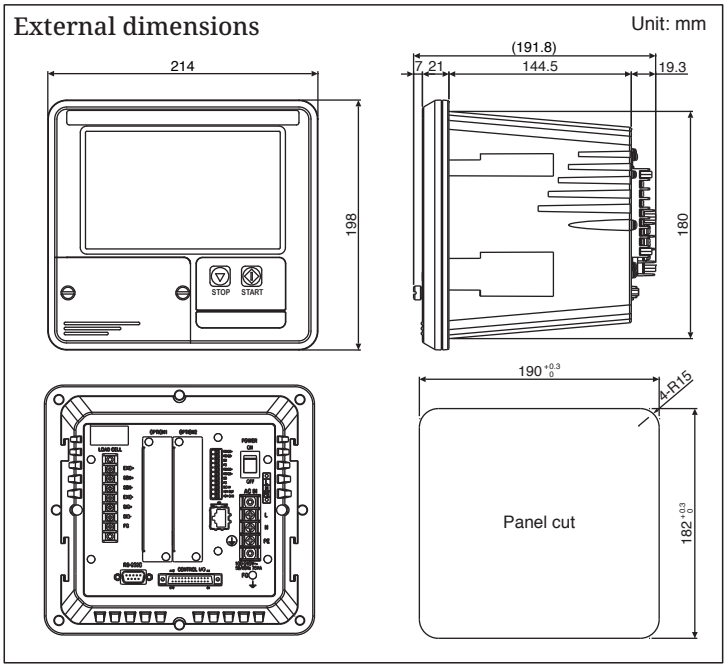
*Wireless LAN receiving sensitivity depends on the radio wave environment.
Caution is required when performing continuous monitoring.

Options

OP-02	Relay output 9 points DC40V 50mA
OP-05	Parallel I/O DI 16 points DO 16 points DC40V 50mA
OP-07	Analog output 1ch 4-20mA or 0-10V add OP-17 × 3 then Maximum 4ch Output weighing value, conveyer speed control
OP-17	Analog output module 4-20mA or 0-10V
OP-10	Panel mount bracket
OP-11	Bracket for display stand

External dimensions

Unit: mm



Appearance and/or specifications are subject to change without notice.

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Discover Precision

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