INSTRUCTION MANUAL FOR THE LD514 REMOTE DISPLAY

FRONT PANEL

MD
When the indicator status is stable, this LED comes on. (This may come on in the unstable status depending on the indicator type.)

ZALM
When the indicator status is Zero Alarm (ZALM), this LED comes on.

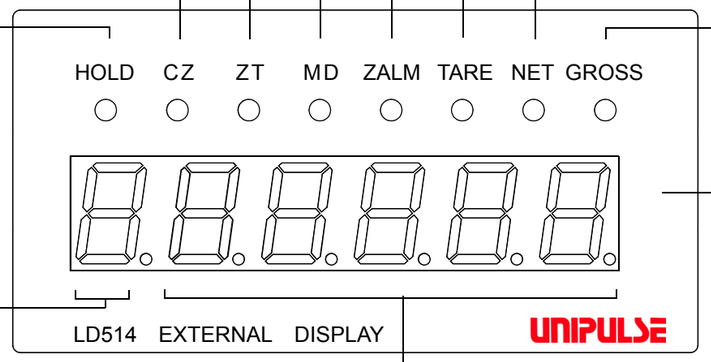
ZT
When the indicator is Zero Tracking (ZT), this LED comes on.

TARE
When the indicated weight value is a tare weight or the indicator is in the tare subtraction status, this LED comes on.

CZ
When the indicator is within ± 1/4 scale division from the zero point, this LED comes on to indicate the true zero point.

NET
When the indicated weight value is a net weight, this LED comes on.

HOLD
When the indicator is in one of the following states, this LED comes on.
- The indicated weight value is held.
- The hold signal is input in the rear panel terminal base.
- The digital indicator status is HOLD.



GROSS
When the indicated weight value is a total weight, this LED comes on.

Unit of weigt
The unit of weight value is none at delivery. Select a necessary unit indication from attached unit seals and paste it at a proper position.

g kg t lb N

Negative sign indicating digit

Numeric display part
This part indicates the following 7 types of value.
- Total weight
- Net weight
- Tare weight
- Load cell indicator interrelated value (Standard mode)
- Load cell indicator interrelated value (LD151 compatible mode)
- Digital indicator interrelated value
- Over-scale indication

Connection Fault Indication

When the dedicated serial interface input short-circuits or wire breaking occurs, or when the rotary switch is not selected correctly, blanking (all digit OFF) takes place and all the status indicating LEDs come on.

In this case, check the following items and take a proper measure.

- When the dedicated serial interface is used, check if it is correctly connected or any wire breaking does not occur.
- Check if the rotary switch is set according to the specified number.
- Check if the indicator is normally operated.

When the all-digit indicating part and the status indicating LEDs do not come on, check the following item and take a proper measure.

- Check if the power supply (100 to 220 V AC) is correctly input.

Self-check (self-diagnosis) method

The LD514 can make a self-diagnostic test by special operation or a command from the indicator. If any fault is not found by self-diagnostic test (ROM check), a visual check is started in succession. At the visual check, a decimal point and a number of 0 to 9 are displayed for each digit on the display unit. Visually check if the numeric value can be normally indicated.

The self-check is made in the following two cases.

- The power supply is turned on after the rotary switch is set to the self-check mode.
  When the rotary switch is set to No.8 and then the power supply is turned on, the check is repeated until this setting on the rotary switch is changed.
- A self-check command is given from the indicator that is connected.
  For making a self-check, the load cell indicator such as F805 outputs a check command to the LD154. Some types of indicator may not output a check command. For details, refer to the instruction manual for the respective indicator.

Visual check

. → . → . → . → . → .
9 → 9 → 9 → 9 → 9 → 9
8 → 8 → 8 → 8 → 8 → 8
7 → 7 → 7 → 7 → 7 → 7
6 → 6 → 6 → 6 → 6 → 6
5 → 5 → 5 → 5 → 5 → 5
4 → 4 → 4 → 4 → 4 → 4
3 → 3 → 3 → 3 → 3 → 3
2 → 2 → 2 → 2 → 2 → 2
1 → 1 → 1 → 1 → 1 → 1
0 → 0 → 0 → 0 → 0 → 0
. → . → . → . → . → .
P → A → S → S

If the indication is provided as shown above, the display unit is normal.

Loadcell Indicator

	Standard	LD515 comparible
A/D converter input over	LoAd	LoAd
A/D converter input negarive over	-LoAd	-LoAd
Net weight > Net Over	oF 1	Err1
Total weight > Maximum scale value + 9 divisions	oF 2	LoAd
Total weight > Total quantity over	oF 3	Err3
Tare quantity > 99999	oF 4	Err4

Digital Indicator

(※ This indicator is based on the overflow indication of our F360 series, so the indication may be different from the indication of the LD154 main unit depending on the indicator that is connected.)

A/Dconverter over scale	oF 1
A/Dconverter − over scale	oF 2
Indicated value > 99999	oF 4

REAR PANEL

Frame ground

This is a grounding terminal. Be sure to ground this F.G terminal to prevent an electric shock and a fault due to static electricity.

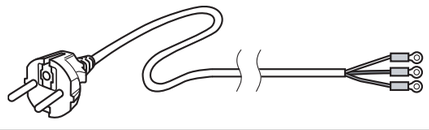
AC power supply input terminal base

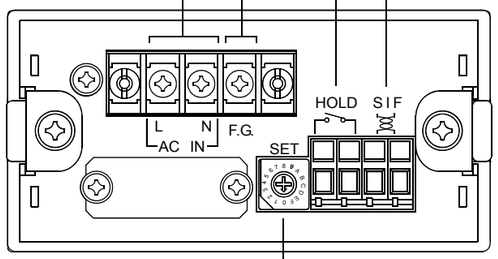
Connect the attached AC power cable.The input voltage is 100 to 240 V AC and the frequency is 50/60 Hz.

About the power cable

- The power cable attached to this product as standard equipment can be used in the AC100V power supply in Japan. (Official ratings voltage AC125V)
  Please use the power cable authorized in the country when you use this product outside Japan.
- Our company sells following resistance pressure cable AC250V (European standard product) separately.
  Please purchase it from us when you need after confirming its plug shape/voltage.

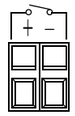
CAAC3P-CEE7/7-B2
: CEE7/7 Plug cable (2m)



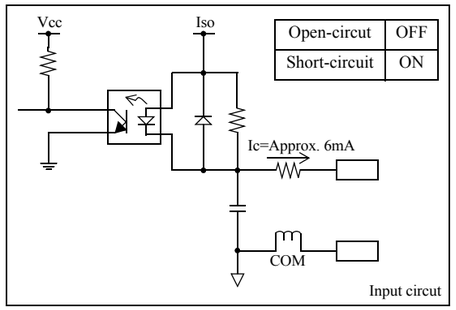


Hold input terminal base

HOLD

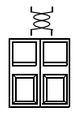


To hold the indicated value, strap these two terminals. The right-hand terminal is a COM terminal.



SI/F terminal base

SIF



This is a terminal base for SI/F input (two-wire serial interface input). The applicable wire material is a parallel 2-core cable, cabtyre cable, etc.

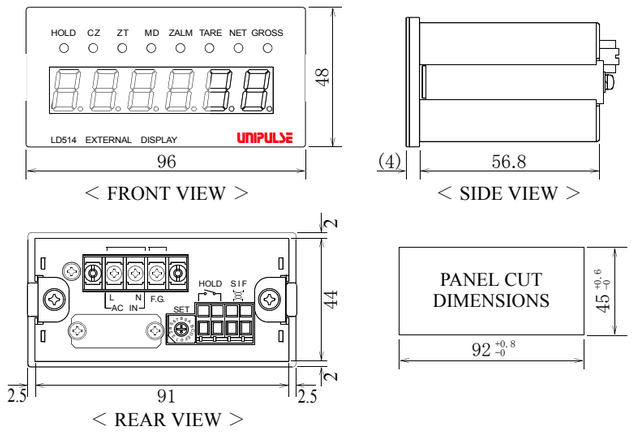
Indication contents selecting rotary switch

SET

Various data from the indicator can be selected and displayed by changing over the rotary switch. The decimal point automatically follows the setting from the indicator.

SW No.	Contents of indication
0	Total weight indication
1	Net weight indication
2	Tare weight indication
3	Load cell indicator interrelated value (normal mode)
4	Load cell indicator interrelated value (LD151 compatible mode)
5	Digital indicator interrelated value
8	Self-check mode

External Dimensions

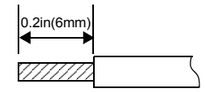


※ The plate thickness of the mounting panel is 1.5 mm or more. Unit : mm

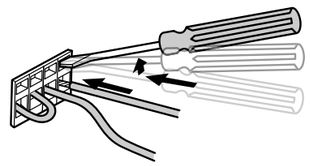
Connecting to Cage Clamp Terminal Block

As the SI/F terminal and hold input terminal is using the cage clam system terminal stand, connecting is simple.

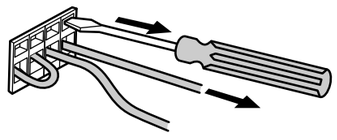
1.Strip the casing 0.2in(6mm) on the cable to be connected.
2.Twist the bare wire to fit the terminal hole.



3.Insert the supplied screwdriver into the upper hole and lift upward
4.Insert he twisted wires into the lower hole.。



5.Pull the screwdriver out from the upper hole.
6.Make sure cable is clamped securely and does not come out wight a slight tug.



- Cable can be from 24 to 12AWG (0.2 to 2.5MM^2). It is not necessary to solder the cable wires or to fix a solderless terminal
- If several cables to be inserted to the same hole, twist those cable wires together and insert.

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