

CSD-581-74

Spec. No.EN382581-74-F

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SPECIFICATIONS

P.C. Board Type Digital Indicator

1. General

This instrument is the built—in P.C. Board type digital indicator with RS-232C interface, and it is suitable for the application inside of control pannel, such as batcher scale, platform scale, and so on.

2. Specifications

2-1. Specifications for analog

• Bridge power supply $DC10 V \pm 0.5 V$ within 120 mA (DC2.5 V is changeable)

with remote sensing applied.

• Applicable transducer Up to 4 pieces of strain gage applied transducers (350 Ω) can be

connectable.

• Input range F.S. setting can be made with the input range from 0.2 mV/V to

3.1 mV/V (Bridge power supply is at DC10 V.)

• Zero adjustment range —0.1 mV/V to 2.4 mV/V

• Non-linearity 0.01 %F.S.

(F.S. setting with the input range from 3 mV/V to 3.1 mV/V.)

• Temperature coefficient

Zero point $\pm 0.4 \mu \text{ V/°C}$

(Input conversion, at F.S. setting with the input range from

 $0.3 \, \text{mV/V} \text{ to } 3.1 \, \text{mV/V.}$

Sensitivity $\pm 0.003 \% F.S.$ % C

(At F.S. setting with the input range from 0.3 mV/V to 3.1 mV/V.)

• Input noise $\pm 0.3 \,\mu\text{Vp-p}$ or less.

(at the default setting for digital filter and stabilized filter)

• A/D sampling 100 times/s

• CHECK Approx.0.3 mV/V

(Setting can be provided at the intervals of 0.1 mV/V with the range

from 0.1 mV/V to .5 mV/V.)

2-2. Specifications for digital

• Load display Load display or setting display

Display range $-1\ 000\ \text{to}\ 11\ 000\ (\times 2, \times 5\ \text{and}\ \times 10\ \text{can}\ \text{be}\ \text{available.})$ Display Red 7 segment LED, character's height 8 mm, 5 digits

Over display "-OL" display when minus over and "OL" display when plus over.

• Status display RUN, A/Z, LOCK, HOLD, CHECK

Display rate 4 times/s (20 times/s or 50 times/s changeable)
 Decimal point display No display, 10¹,10²,10³ or 10⁴ changeable

2-3. Key switch function

A/Z / Tare weight cancellation / Setting value carry

A/Z OFF/▲ Tare weight cancellation clear / Setting value increment

ZERO Zero set

FUNC Changeover of Function mode

CHECK ON/OFF of check value

ENTER Enter key



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2-4. External control function

ZERO Same as ZERO key
A/Z Same as A/Z key
A/Z OFF
Same as A/Z OFF key

X Above are pulse inputs, and they are effective once when the pulse width is 100 ms or more.

HOLD Display, or hold of RS-232C interface

LOCK Prohibiting key operation

X Above are level inputs, and they are effective when input is applied with the short for 100 ms or more.

2-5. Open collector output signal

• RUN ON during the measurement mode in the instrument

• ERROR ON during the various kinds of errors occurred

 V_{CE} =DC30 V, I_{C} =DC30 mA MAX

2-6. RS-232C interface

• Specifications

Baud rate Selection from 600,1 200,2 400,4 800,9 600,19 200 and 38 400 bps

Data bit length • Selection from 7 bit and 8 bit

Parity bit Selection from None, Even and Odd

Stop bit • Selection from 1 bit and 2 bit

Terminator \cdot CR+LF

Communication method

·Half duplex

Synchronous method Start-stop synchronous method

Communication data ·ASCII code Input/output monitor with LED

X Other than the Measurement mode, communication will be down.

 \cdot Layout of RS-232C connector pin Suitable plug : DE-9S-NR by JAE or equivalent.

Pin No.	Signal Name
1	CD
2	TXD
3	RXD
4	N.C.
5	S.G.
6	N.C.
7	RTS
8	CTS
9	N.C.

X Connector plug is not attached.

* The screw for fixing to the connector is inch type screw.

X Don't connect with the N.C. pin

• Function ①Read out the load data (Gross weight, Net weight, Tare weight)

②Read out the status (on/off the A/Z, ERROR)

(3) Change of status(on/off the A/Z, ZERO)

(4) Communication error code (Error code related to Communication)

(5) Calibration



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2-7. Various kinds of function

Zero tracking Stabilizes the variation of zero within the constant condition.
Digital filter Stabilizes the data through the processor inside of CPU.

• Stabilized filter Makes the digital filter strengthened/stabilized only when variable

width of load is within the constant value.

Change target of load display

Selects the target of display from Gross weight and Net weight.

• Change target of HOLD By the combination with "Display" and "RS-232C interface",

target for HOLD can be made.

• Key lock Prohibiting key operation

**Different operation from the LOCK function.

3. General specification

• Operating temperature/humidity range

Temperature $-10 \,^{\circ}\text{C}$ to $50 \,^{\circ}\text{C}$

Humidity Less than 85 %RH (Non condensing.)

• Power supply

Power supply voltage DC24 V (DC18 V to 36 V)

Power consumption Approx. 9 W at maximum (At DC24 V)

• Insulation resistance 100 M Ω or more, at DC500 V (DC power supply \leftrightarrow GND)

• Withstand voltage AC500 V for 1 min. (DC power supply \leftrightarrow GND)

• Outline dimensions(W \times H \times D)

: $220 \text{ mm} \times 130 \text{ mm} \times 25 \text{ mm}$

(Excludes protruding parts except on the surface.)

• Weight Approx. 250 g

4. Standard specifications at the shipment

• Bridge power supply DC10 V

• Span adjustment 2 000 display at the input of 0.3 mV/V

• Tare weight 0 mV/V

• The minimum scale 1

• Decimal point Non

5. Accessories

Instruction manual 1 piece
Midget fuse (5 A) 1 piece
Short bars for A-F, C-G 2 pieces

• Seal for unit 1 piece

6. Options

6-1. Metal cover

• P/N CSD581-P80

Specifications

Outline dimensions $(W \times H \times D)$

: $250 \text{ mm} \times 140 \text{ mm} \times 38.6 \text{ mm}$ (Excludes protrusion.)

Weight Approx. 550 g

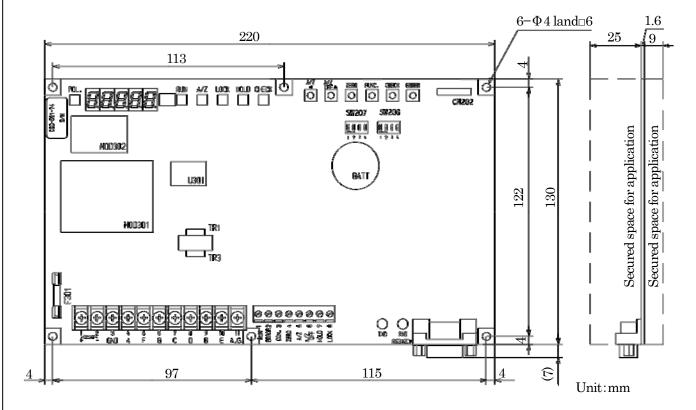


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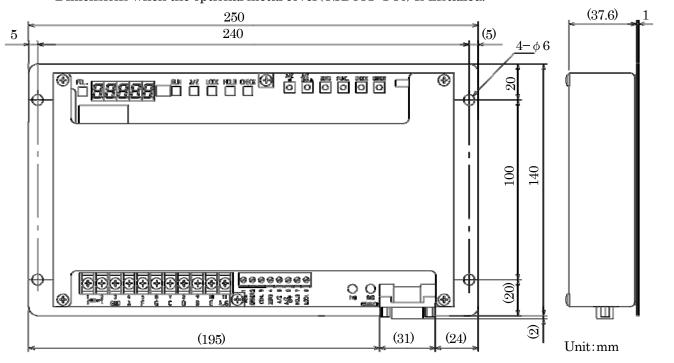
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7. Outline dimensions



Dimensions when the optional metal cover(CSD581-P80) is installed.



X Specifications and outline dimensions and so on which have printed may subject to change for the purpose of improvement without notice.