CSD-581-15

Spec. No.EN382581-15-J

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SPECIFICATIONS Built-in P.C. Board Type Digital Indicator

1. General

This instrument is the built–in P.C. Board type digital indicator with BCD output, and it is suitable for the application inside of control panel, such as batcher scale, platform scale and so on.

2. Specifications

2-1. Specifications for analog • Bridge power supply DC10 V±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 $(350 \ \Omega)$ 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.) -0.1 mV/V to 2.4 mV/V Zero adjustment range 0.01 %F.S. Non-linearity (F.S. setting with the input range from 0.3 mV/V to 3.1 mV/V.) • Temperature coefficient Zero point ±0.4 μ V/°C (Input conversion, at F.S. setting with the input range from 0.3 mV/V to 3.1 mV/V.) Sensitivity ±0.003 %ES/°C (At F.S. setting with the input range from 0.3 mV/V to 3.1 mV/V.) • Input noise $\pm 0.3 \ \mu$ 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 1.5 mV/V.) 2-2. Specifications for digital Load display Load display or setting display $-1\,000$ to $11\,000$ (×2,×5 and×10 can be available.) **Display** range Display Red 7 segments LED, character's height 8 mm, 5 digit "-OL" display when minus over and "OL" display when plus over. Over display RUN, A/Z, LOCK, HOLD, CHECK • Status display • Display rate 4 times/s (20 times/s or 50 times/s changeable) No display, 10^1 , 10^2 , 10^3 or 10^4 changeable • Decimal point display 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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SPECIFICATIONS Spec. No.EN382581-15-J 2/72-4. Output signal for open collector • RUN ON during Measurement mode of the instrument. • ERROR ON during various kinds of errors are occurred. V_{CE} =DC30 V, I_C =DC30 mAMAX 2-5. BCD output • Specifications Output •BCD 5 digits Parallel output with polarity (POL) (Output ON with minus and outputs OFF with plus.) •P.C. (Print command) ON during a certain period after conversion of BCD output is completed. ON at the time of various kinds of errors are occurred •ERROR •OVR (over) Above are open collector outputs V_{CE}=DC30 V, I_C=DC20 mA at Max. *Other than the Measurement mode, renewal of output can't be provided. •ZERO Same as ZERO key. • Input •A/Z Same as A/Z key • A/Z OFF Same as A/Z OFF key. *Above are effective once with the pulse input and its width is more than 100 ms. •HOLD Hold of display and BCD output •LOCK Prohibition of key operation •SEL.1,SEL.2 By the combination of 2 inputs conditions, target of output for BCD output can be changed as follows: Open both SEL.1 and SEL 2 : Interlocked with load display Short only SEL.1 : Cancelled portion of A/Z Short only SEL.2 : Fixed net weight Short both SEL.1 and SEL.2 : Fixed gross weight *Above are level inputs, effective during the short of input for more than100 ms. • Layout of BCD output connector pin Suitable plug: 57-30360 (made by DKK) COM. 8×10^{2} 1 1325ERROR $\mathbf{2}$ 1×10^{0} 14 1×10^{3} 26P.C. 3 $2 \times 10^{\circ}$ 15 2×10^3 27HOLD 4 4×10^{0} 16 4×10^{3} LOCK 28 $\mathbf{5}$ $8 \times 10^{\circ}$ 17 8×10^{3} 29SEL.1 SEL.2 6 1×10^{1} 18 1×10^{4} 30 7 2×10^{1} 19 COM. 31 ZERO 8 4×10^{1} 20 2×10^{4} 32 A/Z9 8×10^{1} 21 4×10^{4} 33 A/Z OFF 10 1×10^2 22 8×10^{4} 34 N.C.

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

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 2×10^2

 4×10^2

23

24

POL.

OVR.

35

36

N.C.

N.C.





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4. Standard specifications at the shipment

- DC10 V • Bridge power supply
- $2\,000$ display at the input of 0.3 mV/V • Span adjustment 0 mV/V
- Tare weight
- The minimum scale 1
- Decimal point Non

Accessories 5.

- Instruction manual 1 piece
- Midget fuse of 5 A 1 piece
- Short bars for A-F, C-G $2 \, \text{pieces}$
- BCD output plug(57-30360)
- 1 piece • Unit seal 1 piece

6. Options

- 6-1. Metal cover
 - P/N

CSD581-P80

• Specifications

Weight

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

250 mm × 140 mm ×38.6 mm (Excludes protrusion) Approx. 550 g



MinebeaMitsumi Inc. Sensing Device Business Unit Revised on Aug, 2022

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8. Conformity of CE standard

The instrument has conformed to the following standard. **EN61326–1:2013**

"Electrical equipment for measurement, control, and laboratory use – EMC requirements" "Immunity test requirements for equipment intended for use in industrial locations" **RoHS compliant**

8-1. Storage case

The storage case is a thing which is the shielding case where EMC solution was given.

8-2. Wiring

All wirings must be the combination of the connector with the effect of the shield of a screened cable and a metallic shell . Or, thing that the shield processing is surely done by the conduit piping including in the case of storage.

8-3. Power supply

The power supply by which DC24 V is supplied to the instrument must use the conformed product of CE standard, and set the instrument up in the same storage case. Install the serge solution element which corresponds to the power supply voltage on the first side in "Between the line and the line" and "Between the line and the earth" on the first side of the power supply.

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