

Digital Peak Holder CSD-709

2023/06/02

Features



- High speed sampling speed at 4 000 times/s
- Corresponding to the various application
- Holding function corresponding to the application.
- Various interface.
- Waveform display and condition setting is available with PC by the additional memory and the specialized software.
- CE Mark applicable.
- Protection class: IP64

Specification

Specification name	Specification contents
Bridge power supply	10 VDC±0.5VDC within 60 mA(Changeable to 5 VDC or 2.5 VDC)
Applicable transducer	Strain gage based transducer 170 Ω ~ 1 000 Ω (at 10 V of bridge power supply)
Input sensitivity	0.4 μV/d (d = Minimum scale)
Input range	-3.1 mV/V ~ 3.1 mV/V

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Zero adjustment range	±2.5 mV/V
Monitor output	2 VDC ± 0.1 VDC per 1 mV/V of sensor input (at 10 VDC of bridge power supply), Load resistance: 2 kΩ or more
Non-linearity	0.02 %±1 digit
Temperature coefficient	Zero point ±0.5 μV/°C (in the calibration with 0.4 μV/d or more of input sensitivity.) Sensitivity ±0.002 5 %F.S./°C (In the calibration with ±0.4 μV/d or more of input conversion.)
Analog filter	100 Hz (Changeable to 10 Hz, 40 Hz, 400 Hz, 1 kHz, 4 kHz, 10 kHz or 30 kHz.) * Effective only when analog peak hold is used. * Fixed to 30 kHz when digital peak hold is used.
Digital low pass filter	40 times/s: OFF, 0.1 Hz~ 4 Hz 400 times/s: OFF, 1 Hz~ 40 Hz 4000 times/s: OFF, 10 Hz~ 400 Hz
A/D sampling speed	4 000 times/s (Changeable to 40 times/s or 400 times/s)
A/D internal resolution	24 bit
CHECK value	Approx. 0.3 mV/V
Analog peak hold	Response speed: According to the property of analog filter. Analog filter set value 10 Hz, 40 Hz, 100 Hz, 400 Hz, 10 kHz, 4 kHz Accuracy: Analog filter set value (-3 dB±1 dB) ±0.1 % Analog filter set value 10 kHz Accuracy: Analog filter set value (-3 dB±1 dB) ±0.5 % Analog filter set value 30 kHz Accuracy: Analog filter set value (-3 dB±1 dB) ±1 %
Load display	Display range : -9 999 ~ 99 999 Display increment : 1 (Changeable to 2, 5 or 10.) Display unit : Green 7 segment LED, Character height: 17 mm Over display : [-OL] appears in case of minus overflow, [OL] appears in case of plus overflow. A/D value over display : [-OVF] appears in case of minus overflow, [OVF] appears in case of plus overflow.
Condition display	SEL.1、SEL.2、CHECK、HOLD、PEAK、MEAS.、END、LOCK
Display rate	20 times/s (Changeable to 4 times/s, 50 times or 100 times/s)
Judgement display	OUT1, OUT2, OUT3, OUT4
Decimal point display	Changeable to No display, 10 ¹ , 10 ² , 10 ³ , 10 ⁴
External control input signal	Any 6 signals listed below is selectable. OFF, Zero set, Zero set clear, HOLD (pulse), Print command (Serial interface), Forced termination of multi-hold, HOLD (Level), Peak/Track, Reset, SEL.1, SEL.2, CHECK, Batched key lock
External control output signal	Any 6 signals listed below is selectable. OFF, HOLD, PEAK, MEAS, END, MULTI (turned on in using multi-hold mode.), EXCUTE (turned on during measurement in multi-hold mode), NG (turned on under any condition except for OK condition.), Upper limit / Lower limit, S0, S1, S2, ERROR, Over error, Zero set response, RUN (Level / Toggle)

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Functions	Analog filter, Digital filter, Digital low pass filter, Simplified calibration, CHECK value, Hold target change, Analog output target change, Brand code change, Peak mode selection, Digital peak hold, Analog peak hold, Monitor output, Monitor mode, Waveform comparison (when the optional parts is installed.), Measurement result log (when the optional parts is installed.)
USB interface	Compatible with USB 2.0 (can also be used with USB 1.1 compatible equipment) Output connector: B type mini-USB connector
Operating temp. /humidity range	100 VAC ~ 240 VAC, 50/60 Hz (Permissible variable range 85 VAC ~ 264VAC)
Power supply voltage	100 VAC 50/60 Hz(Permissiblevariable range 90 VAC ~ 121 VAC)
Power consumption	Approx.10 VA (withoutoptions, at 100 VAC) Approx.18 VA at maximum(with options, at 100 VAC ~ 240 VAC)
Outline dimensions (WxHxD)	96 mm x 48 mm x 110mm (excludes protruding parts)
Weight	Approx. 500 g (without options)
Protection code	IP64 or equivalent at the front panel section when the gasket is installed.

Start guide

[EN294-1768 Start Guide of CSD-709](#)

Options

Voltage output

Current output

BCD output (Sink type)

BCD output (Source type)

External control (Voltage input type)

RS-232C interface

RS-422/485 interface

CC-Link interface

Power supply voltage

Serial interface

Additional memory (with software for measurement CSD-709D-01)

EzCTS (Ez Communication Tool Software for PC)

Latest News

2023.03.24

New Product

[New Product]Digital Indicator "CSD-701C" is released ! Great improvement on Temperature Characteristics and Non-linearity!

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