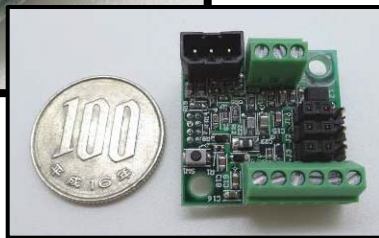
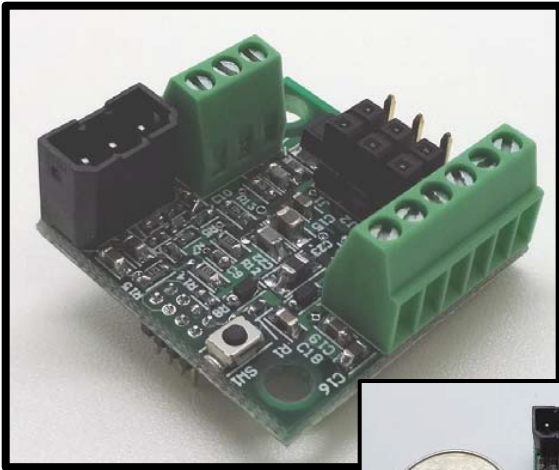


**Compact Sensor Digital Amplifier**  
For Strain Gauge/Thermocouple  
[C-sdAMP]

**Easy Measure**

**【Measurement Made Easy】**

Ready to use  
Easy to use for anyone  
Carry & use anywhere



The sensor digital amplifier, C-sdAMP, has various advantages over conventional analog amplifiers: small, lightweight, low power, high precision, short lead-time for delivery, easy adjustment with PC connection, and less affected by temperature.

**[Features]**

- Small Size (25mm square x 14mmH)
- Two Types (Strain Gauge/ Thermocouple) Bridge Connection (1/2/4 Gauge) Auto Zero, Eight Types of Thermocouples (B/E/J/K/N/R/S/T)
- Range can be set by PC (Need a Connection Kit) (Can be set at the time of shipment)
- Precise:  $\leq \pm 0.1\%$  (Strain),  $\leq \pm 1.5$  deg.C (Temp.)
- Output:  $\pm 5V$
- Power: DC 8-25V

**[General]**

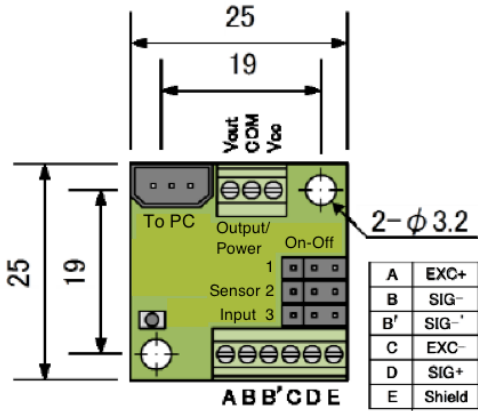
The sensor digital amplifier [C-sdAMP] uses digital signal processing technology that adjusts sensor signals, and outputs an analog voltage. Small, but higher performance and higher functionality compared with conventional amplifiers.

**[Product Specifications]**

Items		Specification	
Number of Channels		1 Channel	
Connecting Sensor		Strain Gauge/ Transducer	Thermocouple
Model		s-dAMP	T-dAMP
Input Sensor Types		Single Gauge (2/3 wire) Bridge Two Gauge (120Ω) Bridge Four Gauge (120 – 1kΩ) Bridge	B/E/J/K/N/R/S/T
Measurement Range		$\pm 1000 - \pm 10000 \mu\epsilon$	Full Temperature Range
Accuracy		$\pm 0.1\%FS$	$\pm 1.5$ deg.C
Bridge Voltage		2V	-
Input Terminal		Screw type	Screw type
Output Voltage (Terminal)		$\pm 5V$ (Screw Terminal)	
Response Speed		2,000 times/s	20 times/s
Delay		< 1.3ms	< 130ms
Output Low Pass Filter	Slope	-18dB/OCT	
	Cutoff Frequency	1kHz	10Hz
AZ (Zero Registration)	Setting	On-board SW / PC	
CAL (Calibration Function)	Setting	PC	
	Registration	Value entry by PC	
PC Interface	Connection	Via USB connection board	
	Function	Input Range, CAL Value Setting, AZ/CAL Operation	
Power/ Consumption Current		DC8-25V/ 30mA	
Operation Environment		0-85 deg.C	
Dimensions		25 [W] x 25 [D] x 14 [H] mm, about 8g	

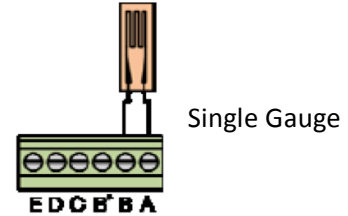
[Dimensions: mm]

Strain Gauge

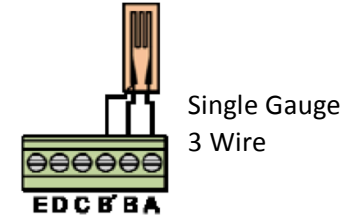


Input Connections and Jumper Settings

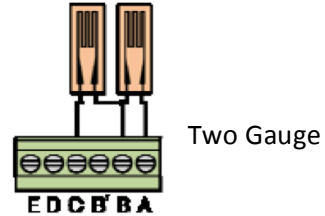
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3	On



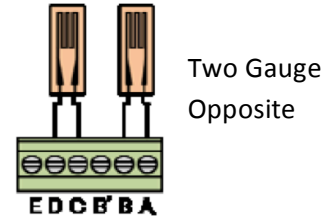
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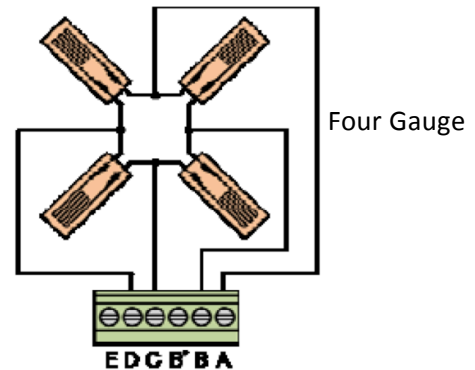
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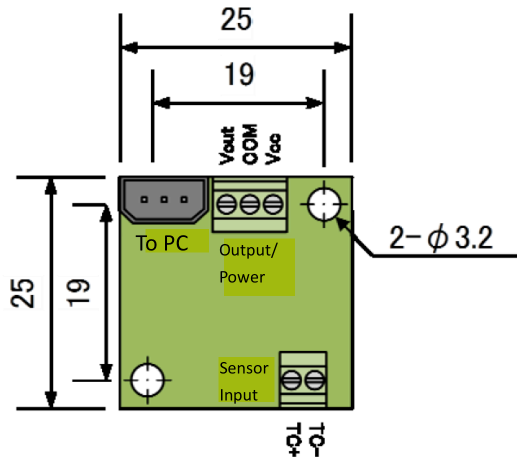
1	On
2	Off
3	On



1	Off
2	Off
3	Off



Thermocouple



PC Connection Kit



[Model Number]

Product Name	Model
Strain Gauge Digital AMP	S-CDA1
Thermocouple Digital AMP	T-CDA1
PC Connection Kit (Cable, Setting Software)	K-CDA
AC Adaptor (AC100-240V/DC12V)	DA-AC
Strain Gauge Conversion Cable (NDIS Female –stranded wire) 0.5m	S-CBL-B-0.5m

Customization services are available. Please contact us.  
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**Sensor is source of technology**  
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