

# SG-3000 *Signal Conditioner Modules*

## SERIES

SG-3000

SG-3011



NEW!!

### SG-3011

#### Isolated Thermocouple Input Module

- Input type: J, K, T, E, R, S, B, N, C, L, M, L2 (DIN 43710)
- Voltage Output: 0~10V
- Current: 0~20mA
- Current load resistor: 0~450Ω (Source)
- Three way isolation: 3000 Vdc
- accuracy:  $\pm 0.2\%$  of full range
- Stability (temperature drift) :  $\pm 2^{\circ}\text{C}$
- Supply Voltage : 10~30 Vdc

SG-3013



NEW!!

### SG-3013

#### Isolated RTD Input Module

- Input Type : Pt, Ni
- Pt 100 ( $-200^{\circ}\text{C} \sim +600^{\circ}\text{C}$ )
- Pt 1000 ( $-200^{\circ}\text{C} \sim +600^{\circ}\text{C}$ )
- Ni 120 ( $-80^{\circ}\text{C} \sim +300^{\circ}\text{C}$ )
- Input Connections : 2/3/4 wires
- Voltage Output: 0~5V, 0~10V
- Output impedance:  $< 50\Omega$
- Current Output : 0~20mA, 4~20mA
- Accuracy :  $\pm 0.2\%$  of full range
- Supply Voltage: 10~30Vdc  $\pm 10\%$

SG-3016



### SG-3016

#### Isolated Strain Gauge Input Module

- Voltage Specifications :
  - Electrical input :  $\pm 10\text{mV}$ ,  $\pm 20\text{mV}$ ,  $\pm 30\text{mV}$ ,  $\pm 50\text{mV}$ ,  $\pm 100\text{mV}$
  - Excitation voltage : 1 ~ 10Vdc (20mA max.)
- Voltage output :  $\pm 5\text{V}$ ,  $\pm 10\text{V}$  or 0~5V, 0~10V
- Output impedance :  $< 50\Omega$
- Current output : 0~20mA
- Current load resistor: 0~500Ω (Source)
- Three-way isolation : 3000Vdc
- Accuracy :  $\pm 0.1\%$  of full range
- Bandwidth: 600Hz (typical) @ -3dB
- Supply Voltage: 10~30Vdc  $\pm 10\%$ 
  - Consumption: 1.44W (Voltage Output)
  - 1.74W (Current Output)
- Weight : 102.5 gram

# SG-3000

## Signal Conditioner Modules & Power Modules

### SERIES

SG-3071



#### SG-3071

##### Isolated DC Voltage Input/Output Module

- Voltage input :  $\pm 5V$ ,  $\pm 10V$  or  $0 \sim 5V$ ,  $0 \sim 10V$   
Input impedance :  $2M\Omega$   
Input bandwidth :  $3KHz$  (typical)
- Voltage output :  $\pm 5V$ ,  $\pm 10V$  ( $10mA$  max)  
Output impedance :  $< 50\Omega$
- Current Output :  $0 \sim 20mA$ ,  $4 \sim 20mA$
- Isolation (three way) :  $3000Vdc$
- Accuracy :  $\pm 0.1\%$  of full range
- Supply Voltage :  $10 \sim 30Vdc \pm 10\%$
- Weight :  $94$  gram

SG-3081



#### SG-3081

##### Isolated DC Current Input/Output Module

- Current input :  
Unipolar :  $0 \sim 20mA$ ,  $4 \sim 20mA$   
Input impedance :  $250\Omega$
- Voltage output :  
Unipolar :  $0 \sim 5V$ ,  $0 \sim 10V$  ( $10mA$  max)  
Output impedance :  $< 50\Omega$
- Current Output :  $0 \sim 20mA$ ,  $4 \sim 20mA$
- Isolation (three way) :  $3000Vdc$
- Accuracy :  $\pm 0.1\%$  of full range
- Supply Voltage :  $10 \sim 30Vdc \pm 10\%$
- Weight :  $95.5$  gram

PW-3090



#### PW-3090 Series

##### Isolated Power Module

- Input Range :  $18 \sim 36Vdc$
- Temperature Coefficient :  $\pm 0.03\%/^{\circ}C$
- Ripple & Noise :  $100mVp-p$  max.
- Line Regulation :  $\pm 0.2\%$  max.
- Load Regulation :  $\pm 0.2\%$  max.
- Short Circuit Protection
- Efficiency :  $83\%$  Typical
- Isolation Voltage :  $1000Vdc$
- Isolation Resistance :  $10^9$  ohms min
- Switch Frequency :  $200KHz$
- Operating Temperature :  $-25^{\circ}C$  to  $+70^{\circ}C$
- Ordering information :

	3090-24S	3090-12S	3090-5S	3090-15D	3090-5D
Output Voltage	24V $\pm 2\%$	12V $\pm 2\%$	5V $\pm 2\%$	$\pm 15V$ $\pm 2\%$	$\pm 5V$ $\pm 2\%$
Current	400mA max.	800mA max.	2000mA max.	300mA max.	1000mA max.