

■ FEATURE

- Measuring DCA, DCV, ACA, ACV, Hz
- Process signal mA, Vdc, Strain Gauge, Potentiometer, Pt100Ω
- High accuracy and resolution
- User function, easily programmed from the front panel by push-button, and set-point by Dip-Switch
- Modular design, and popular input range programmable
- Three relay (Hi / Low / Go) outputs
- Optional excitation supply available



■ MEASUREMENT

Measuring Range and Resolution	Input Impedance	Input Range Changing	Input Type
Current	999.9 / 999.99μA	1K ohm	Input range has to be specified in order.
	9.999 / 9.9999 mA	100 ohm	
	99.99 / 99.999 mA	10 ohm	
	1.000 / 1.0000 A	1 ohm	
	5.000 / 5.0000 A	0.02 ohm	
Voltage	10.00 / 10.000 A	0.01 ohm	10V / 100V / 200V / 300V / 600V Changeable on board by jumper
	99.99 / 99.999 mV	≥ 5M ohm	
	999.9 / 999.99 mV	≥ 1M ohm	
	9.999 / 9.9999 V	≥ 1M ohm	
	99.99 / 99.999 V	≥ 1M ohm	
	150.0 / 150.00 V	≥ 1M ohm	
Frequency	300.0 / 300.00 V	≥ 1M ohm	Input range has to be specified in order.
	600.0 / 600.00 V	≥ 1M ohm	
Potentiometer	99.99 / 99.999 Hz	≥ 1M ohm	4 popular ranges are changeable in P1 or P2 input module
Resistance	999.9 / 999.99 Hz	≥ 1M ohm	
Pt100Ω	50.00 ~ 2.00K ohm	≥ 1M ohm	Changing input module can change input type. And re-calibration is to be required.
	2.00K ~ 100.00K ohm	≥ 1M ohm	
Resistance	0 ~ 20.00K ohm	≥ 1M ohm	Changing input module can change input type. And re-calibration is to be required.
	-100.0~800.0 °C	≥ 1M ohm	
Pt100Ω	P1: -50~200.0 °C	≥ 1M ohm	Changing input module can change input type. And re-calibration is to be required.
	P2: 0~400.0 °C	≥ 1M ohm	

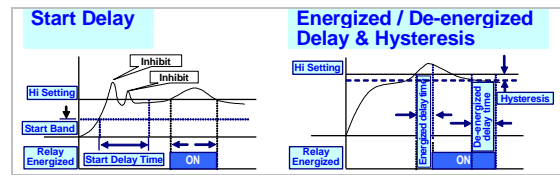
Scaling Range	4 Digits (-9999~+9999)	4 1/2 Digits (0~+19999)	5 Digits (0~+99999)
Accuracy (AC)	±0.1% F.S. ±1 C	±0.04% F.S. ±1 C	±0.02% F.S. ±1 C
Accuracy (other)	±0.04% F.S. ±1 C	±0.04% F.S. ±1 C	±0.02% F.S. ±1 C

- Sampling time:** About 10 cycles/sec.
- Display:** Measuring value: 0.56" red high bright LED
Relay output indication: square red LED
Go output indication: square green LED
- Over-range indication:** "oFL" display
- Under-range indication:** "-oFL" display
- Operation key:** Push-button: Shift / Up / Enter(Function)
- Relay set-point:** Dip-switch
- Relay output:** Hi / Low relays SPDT; 3A/115V, 2A/230V
Go relays SPST; 3A/115V, 2A/230V
- Tare:** Control by rear terminal
- Excitation supply:** DC 10V/35mA, 24V/25mA
- Power Supply:** AC 115/230V ±15%, 50/60 Hz
Option: DC 12V, 24V, 48V
- Operating temperature:** 0~60 °C
- Operating relative humidity:** 20~90 %RH
- Temperature coefficient:** ≤ 100 PPM/°C (0 ~ 50°C)
≤ 50 PPM/°C (23 ±3°C)
- Storage temperature:** -10~70 °C
- Power consumption:** 4.5VA
- Dielectric Strength:** AC 2.0KV for 1 min
between Input / Output / Power / Case
- Insulation:** ≥ 100M ohm, DC 500V
- RFI/EMI:** EN50081-1, EN50082-2
- Safety:** EN60950, EN61010

- Protection:** Front panel: IP54
- Panel cutout:** 93mm x 45mm
- Case Material:** ABS fire-protection
- Weight:** About 500g

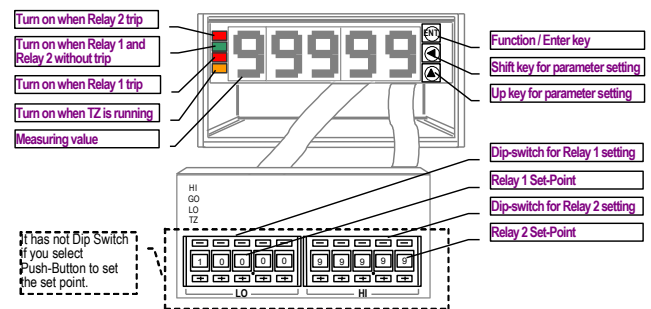
■ SOFTWARE FUNCTION

- Security function:** Code: Password / Set Point Lock
- Friendly function:**
 - HS (High Scale): -9999 ~ 9999 / 0 ~ 99999
 - LS (Low Scale): -9999 ~ 9999 / 0 ~ 99999
 - MAVG (Moving Average): 1 ~ 9 cycles
 - Avg (Average): 1 ~ 99 cycles
- Control function:**
 - RHL: Settable relay Hi trip or Low
 - Sb (Start band): -9999 ~ 9999 / 0 ~ 99999
 - Sdt (Start delay time): 0 ~ 99 seconds
 - HY (Hysteresis): 0 ~ 9999 / 0 ~ 99999
 - rd (Relay trip delayed): 0 ~ 99 seconds

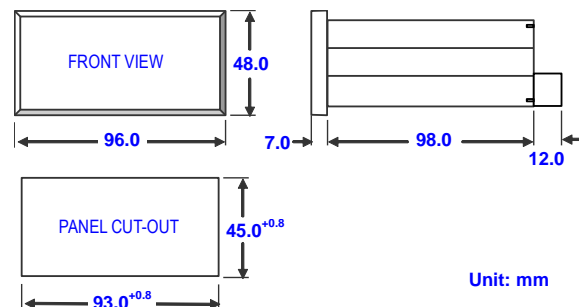


- Calibration function:** System calibration by quick key
 - INH (Input High): Hi scaling calibration
 - INL (Input Low): Low scaling calibration
- Back up memory:** By EEPROM

■ FRONT PANEL



■ DIMENSIONS



Unit: mm



INPUT RANGE PROGRAMMING

Voltage Input Range Section (on power board):

JUMPER	CN1		CN2							
	1	2	1	2	3	4	5	6	7	8
Input Range										
10 V			■							■
100 V			■		■					■
200 V			■		■		■			■
300 V			■		■		■			■
600 V			■		■		■			■
Process Signal Input	■									■

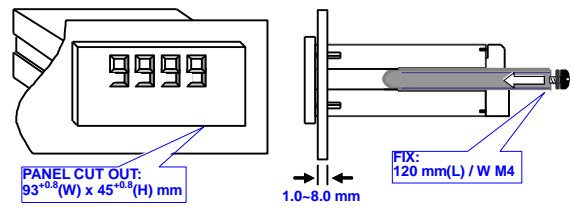
Process Signal Input Range Section (on input module):

DIP-SWITCH	SW1			
	1	2	3	4
Input Range				
0 ~ 20 mA				on
4 ~ 20 mA	on			on
0 ~ 5 V			on	
1 ~ 5 V	on		on	
0 ~ 10 V		on		
2 ~ 10 V	on	on		

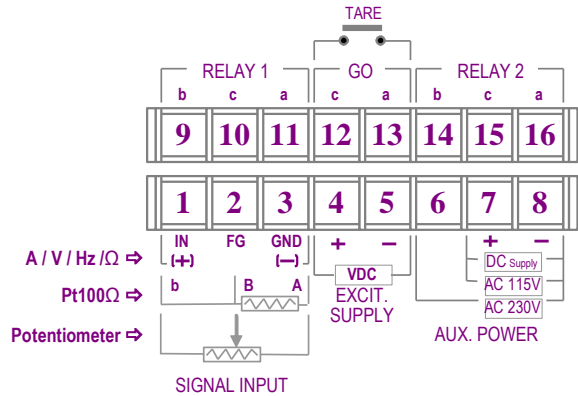
Excitation Supply Output Range Section (on excitation module):

JUMPER	JP1			JP2		
	1	2	3	1	2	3
Excitation Supply						
DC 10 V	■			■		
DC 24 V	■			■		

INSTALLATION



CONNECTION DIAGRAM



ORDERING INFORMATION

