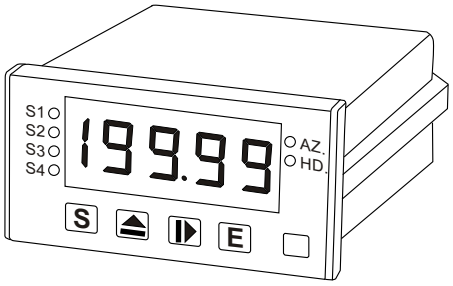
MICROPROCESS DIGITAL METER RELAY

MODEL
S2-412PA

FEATURES

- Programmable display ±19999
- Accuracy: ± 0.05% to ± 0.2%
- Auto-zero and hold function
- Max. Four setting and contact point
- Outside dimension is DIN standard (96x48mm)



SPECIFICATION

- **Input**

Variable to be Measured	Input Range	Input Impedance	Display Range
DC	0 ~ 5V 1 ~ 5V 0 ~ 10V 0 ~ 1mA 4 ~ 20mA 0 ~ 20mA	≧ 1MΩ ≧ 1MΩ ≧ 1MΩ 100Ω 10Ω 10Ω	0 ~ ±19999 Programmable
AC • TRMS	0 ~ 1A 0 ~ 5A 0 ~ 110V 0 ~ 220V	0.1Ω 0.1Ω ≧ 1MΩ ≧ 1MΩ	

- **OUTPUT**

Output Range	Load Resistance	Output Resistance	Output Ripple
0 ~ 1V	≧ 1KΩ	≦ 0.05Ω	≦ 0.5% RO. (Peak)
1 ~ 5V			
1 ~ 5V			
0 ~ 10V			
0 ~ 1mA	0 ~ 10KΩ	≧ 20MΩ	
0 ~ 10mA	0 ~ 1KΩ	≧ 5MΩ	
0 ~ 20mA	0 ~ 500Ω		
4 ~ 20mA			

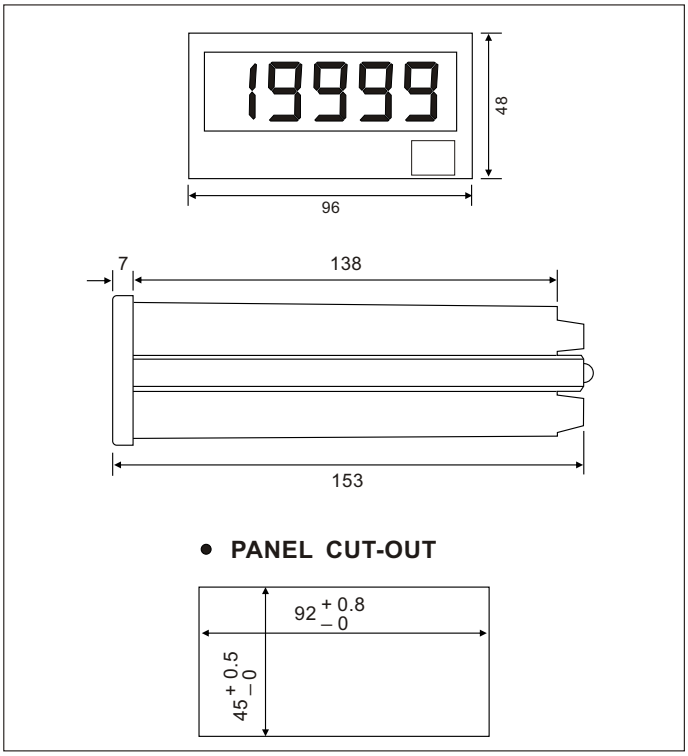
Display ..... 14.2mm(0.56") H, red LED
Accuracy ..... DC range ± 0.05% F.S. ± 2 digits
AC range ± 0.15% F.S. ± 2 digits
Tem. Range ± 0.2% F.S. ± 2 digits
Measuring mode ..... Dual slope
Control system ..... Microcomputer
Maxinum display ..... ±19999
Setting range ..... 0- ±19999 setting
Dead zone range 0-9999
Start (Alarm) delay time ..... 0-99 sec.
Alarm action ..... Hi-Lo mode sellectable
Led flash until alarm action
Memory backup ..... EEPROM
Relay output ..... SPST relay contact (S2-412PA-4),
SPDT relay contact (S2-412PA-2)
AC 110V / 220V, DC 24V, 3A
Electrical characterstics ..... Conforming to EIA RS-485
Communication method ..... 2-wire system half-duplex
Transmission speed ..... 2400/4800/9600/19200 pbs
DC output ..... Isolation 12 bit D/A
Sampling time ..... Abt. 0.8 sec. Typically
Frequency range ..... 45 ~ 400HZ for AC range
Over indication ..... Flash "OFL" or "-OFL"
Over input signal ..... Flash display
Aux. power source ..... AC 110/220V ±10%, 50/60Hz
Power consuption ..... for two setting (S2-412PA-2) ≦ AC 4VA
for four setting (S2-412PA-4) ≦ AC 5VA
Operating temperature range ..... 0 ~ 60°C
Senser power supply ..... DC 12V or 24V, 30mA
(Option function)
Storage temperature range ..... -10 ~ 70°C
Temperature coefficient ..... ≦100PPM/°C
≦60PPM, 25°C ±10°C
Max. relative humidity 95%
Dielectric strength (IEC 688) ..... AC 2KV/1 minute
Input to power terminals
AC 3KV/1 minute
All terminals to case
Impulse (IEC 255-4) ..... Common mode 1.2 x 50μS 4KV

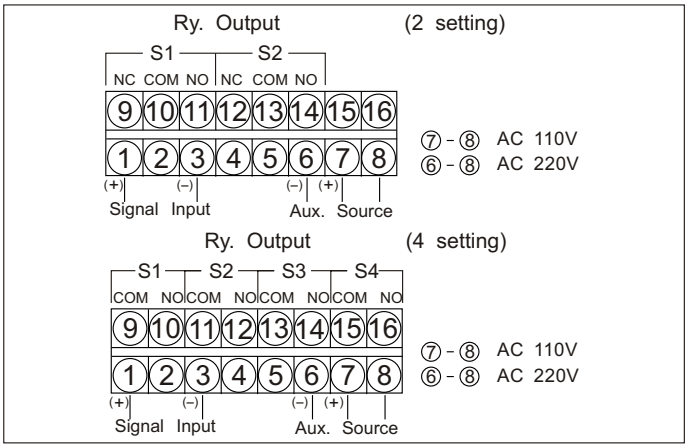
ORDERING INFORMATION

S2-412PA- □ □ □ □ □

Mode	Input	Measuring Range		Output	Aux. Source
2: 2setting	D: DC	P1: 0 ~ 50mV	A7: 0 ~ 1A	V2: 0 ~ 5V	1: AC 110/220V
4: 4setting	A: AC	P2: 0 ~ 60mV	A8: 0 ~ 5A	V4: 0 ~ 10V	2: DC 110V
	T: TRMS	P3: 0 ~ 5V	V6: 0 ~ 110V	A2: 0 ~ 10mA	3: DC 48V
	R: Pt100	P4: 1 ~ 5V	V7: 0 ~ 220V	A3: 0 ~ 20mA	4: DC 24V
	K: K TYPE	P5: 0 ~ 10V	T1: 0 - 100°C	A4: 4 ~ 20mA	0: Option
	O:Option	P6: 0 ~ 1mA	T2: 0 - 1200°C	RS: RS485	
		P7: 4 ~ 20mA	00: Option	NO: None	
		P8: 0 ~ 20mA			

OUTSIDE DIMENSION (UNIT:mm)



- **PANEL CUT-OUT**

CONNECTION DIAGRAMS