

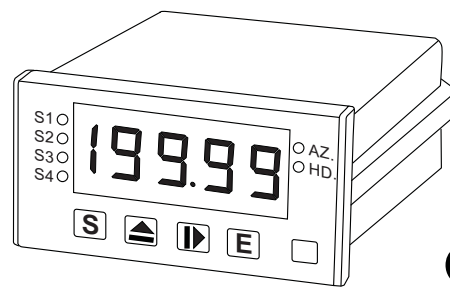


MICROPROCESSOR DIGITAL METER RELAY

MODEL
S2-412PA

FEATURES

- 4 1/2 digits display: ± 19999
- Accuracy: $\pm 0.05\%$ to $\pm 0.25\%$
- Auto-zero and hold function
- Measuring adjustment in input sensing deviation
- Outside dimension is DIN standard (96x48mm)



CE

SPECIFICATION

• Input

Variable to be Measured	Input Range	Input Impedance	Display Range
DC	0 ~ 5V	$\geq 1M\Omega$	0 ~ ± 19999 Programmable
	1 ~ 5V	$\geq 1M\Omega$	
	0 ~ 10V	$\geq 1M\Omega$	
	0 ~ 1mA	100 Ω	
	4 ~ 20mA	10 Ω	
AC	0 ~ 1A	0.1 Ω	0 ~ ± 19999 Programmable
	0 ~ 5A	0.1 Ω	
	0 ~ 110V	$\geq 1M\Omega$	
	0 ~ 220V	$\geq 1M\Omega$	

• Analog output

Output Range	Load Resistance	Output Resistance	Output Ripple
1 ~ 5V	$\geq 1K\Omega$	$\leq 0.05\Omega$	$\leq 0.5\%$ R.O. (Peak)
0 ~ 10V			
0 ~ 1mA	0 ~ 10K Ω	$\geq 20M\Omega$	
0 ~ 20mA	0 ~ 500 Ω	$\geq 5M\Omega$	
4 ~ 20mA			

• Communication

Interface RS 485
 Protocol MODBUS, RTU
 Baud rate 1200 ~ 38400
 Address range 1 ~ 255
 Data format N81, N82, O81, E81

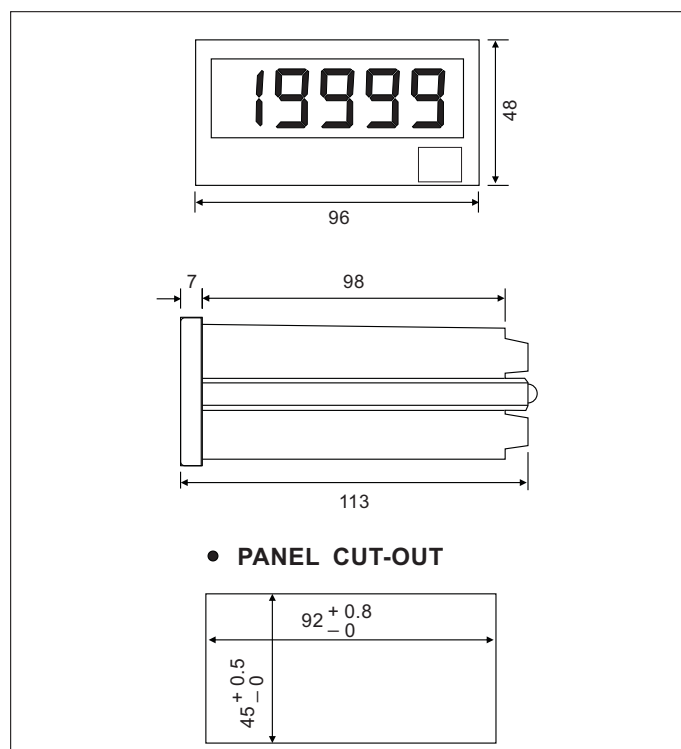
• General

Display 14.2mm(0.56")H, red LED
 Accuracy DC range $\leq \pm 0.05\%$ F.S. ± 2 digits
 AC range $\leq \pm 0.15\%$ F.S. ± 2 digits
 Output $\leq \pm 0.1\%$ ~ $\pm 0.25\%$ R.O.
 (Option: Depending on actual measuring)
 Sampling time Abt. 0.8 sec. Typically
 Frequency range 45 ~ 70HZ for AC range
 Over indication Flash "OFL" or "-OFL"
 Over input signal Flash display
 Aux. power source AC/DC 85 ~ 265V, DC 20 ~ 60V
 Power consumption \leq AC 8.5VA \leq DC 5W
 Sensor power supply DC 24V, 30mA
 Operating temperature range 0 ~ 60°C
 Storage temperature range -10 ~ 70°C
 Temperature coefficient ≤ 100 PPM/°C
 ≤ 60 PPM, 25°C ± 10 °C
 Max. relative humidity 95%
 Dielectric strength (IEC 60688) AC 2KV/1 minute
 Input/output/power terminals
 AC 3KV/1 minute
 All terminals to case

• Electromagnetic compatibility

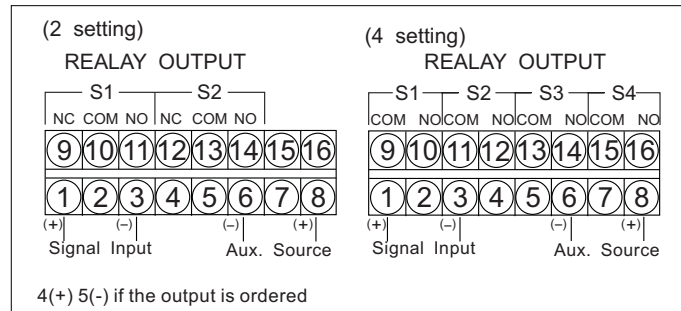
Electrostatic discharge IEC 61000-4-2
 Electromagnetic fields immunity IEC 61000-4-3
 Electrical transient in burst IEC 61000-4-4
 Withstanding impulse voltage IEC 61000-4-5
 Immunity to voltage dips IEC 61000-4-11

OUTSIDE DIMENSION (UNIT:mm)



• PANEL CUT-OUT

CONNECTION DIAGRAMS



ORDERING INFORMATION

S2-412PA-

Mode	Input	Measuring Range	Output	Aux. Source	Option
2: 2 setting 4: 4 setting	D: DC A: AC T: TRMS R: Pt100 K: K TYPE 0: Option	P1: 0 ~ 50mV P2: 0 ~ 60mV P3: 0 ~ 5V P4: 1 ~ 5V P5: 0 ~ 10V P6: 0 ~ 1mA P7: 4 ~ 20mA P8: 0 ~ 20mA	A7: 0 ~ 1A A8: 0 ~ 5A V6: 0 ~ 110V V7: 0 ~ 220V T1: 0 ~ 400°C T2: 0 ~ 1200°C 00: Option	V2: 1~5V V4: 0~10V A2: 0~1mA A3: 0~20mA A4: 4~20mA RS: RS 485 NO: None 00: Option	1: AC/DC 85 ~ 265V 2: DC 20V ~ 60V 0: Option H: Data hold D: Exciting DC 24V N: None