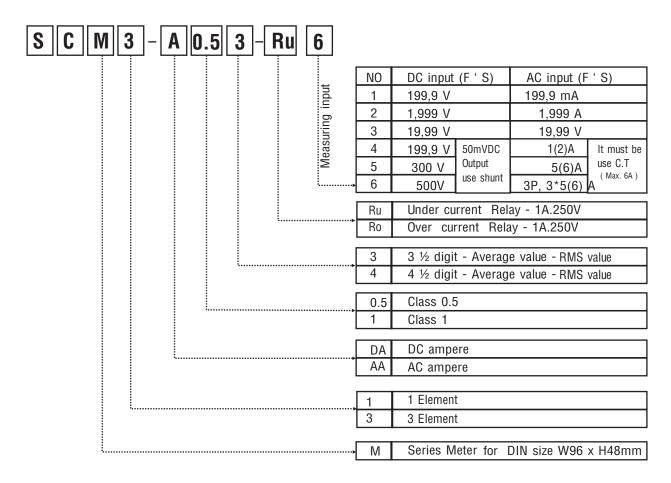
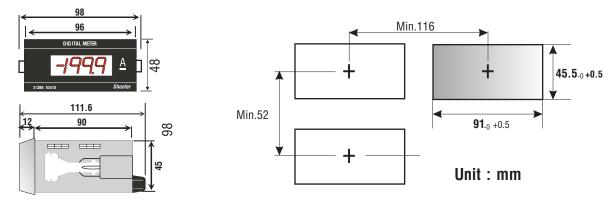


## ■ Ordering information



# Panel cut -out





## **■** Features

- Indicating 1999.
- AUTO ZERO and HOLD function.
- Available average measuring value for sine wave value/measuring value for root mean square for AC, DC ampere
- DIN size of W96 x H48.
- Diverse models of indicator, single preset, double preset.
- Available BCD output.

# Rating

Model	SCM1DV05 -4-X	SCM -1DA-X-X	SCM -1DA-05-3 Ru 4 SCM -1DA-01-3 Ro 5	SCM -1AA-05-3-Rd SCM -1AA-01-3-Rd	
Measuring	DC voltage	DC, AC voltage			
Power supply	5VDC	* 5VDC * 24 to 70VDC 100 to 240VAC/VDC 50/60Hz	* 100	to 70VDC to 240VAC/VDC 50/ 220 VAC 50/60Hz	60Hz
Operating voltage range	90 to 110% rated voltage				
Power consumption	DC: 2W	DC: 2W, AC: 4VA DC: 2W, AC: 5VA		AC: 5VA	
Display method	7 Segment LED Display				
Indicating accuracy	F.S $\pm 0.2\%$ rdg. $\pm 1$ digit	DC : F ± 0,2% rdg. ± 1digit AC : F ± 0,5% rdg. ± 1digit			
Sampling control		300mS			
Operating method	Dual slope A/D conversion				
Response time	2sec (0 to Max)				
Max, input	150% per each range, but 450VAC is 120%, 6 A.AC				
Sampling time	2,5 Operation/sec				
Power consumption	·	250VAC 1A 1C   250VAC 1A 1C x 2			

<sup>(\*)</sup> mark in power spec. Is option.

## **■** Characteristic

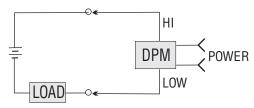
In	sulation Resistance	e 100M Min. (At 500VDC) between power input terminal and control output termin				
In	npulse voltage	2000VAC 50/60Hz for 1 minute between power input terminal and control output terminal				
Noise		The square wave noise (pulse width :1 µs) by the noise simulator±300V	The square wave noise (pulse width $1\mu s$ ) by the noise simulator $\pm1KV$			
ation	Mechanical durability	0,75mm amplitude at frequency of 10 to 55Hz in each of X, Y, Z directions for 1hour				
Vibration	Malfunction durability	0,5mm amplitude at frequency of 10 to 55Hz in each of X, Y, Z directions for 10 minutes				
Shock	Mechanical durability	300m/S <sup>2</sup> (30G) in X, Y, Z directions for 3 times				
Sho	Malfunction durability	100m/S <sup>2</sup> (10G) in X, Y, Z directions for 3 times				
Ambient operting temperature		0 to 50°C	0			
Ambient storage temperature		-25 to 65°C (at non-freezing status)				
Δ	mbient humidity	35 to 85% RH				
Weight		MS : About 52g	SCM1XX : About 170g	SCM1AA1-3-Ru-5 :About 343g	SCM-3AA05 : About 434g	





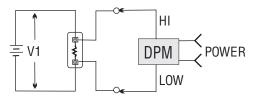
## **■** Connection

### How to measure DC curent



(When measuring current is lower than DC 2A)

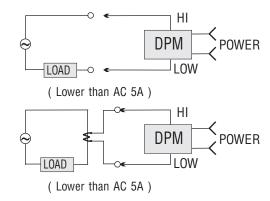
\*F.S measuring current is DC 200mA



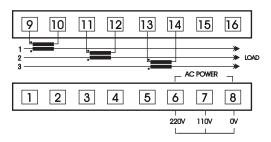
(When measuring current is higher than DC 2A)

\* When measuring current is higher than DC 2A be sure to connect the shunt.

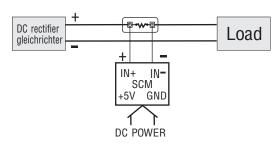
## How to measure AC current



#### ■ How to measure AC current transformer 3P.



#### 1) Block diagram



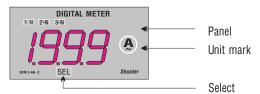
- \* When measuring current is higher than DC 200 mA. Be sure to connect the shunt
- \* It not is insulated the power terminal and input termial

#### 2) Connection terminals

Terminals No.	Items	Contents
1 2	+5V GND	The power terminal (5VDC)
3	HOLD	Note connection diagram
4 5 6 7	D.P1 D.P2 D.P3 D.P COM	Setection terminals of dicimal point.  - Common terminal of dicimal point.  10 <sup>3</sup> 10 <sup>2</sup> 10 <sup>1</sup> 1.9.9.9
8 9 10	IN- NC IN+	Measuring signal input terminal

#### 3) Unit mark

There is no unit mark in the SCM meter, please attach the unit mark on the panel board.



#### 4) Caution

- Take care of insulation because it is not insulated between signal input line and power line.
- Be sure to supply the power after checking polarity of the power.
- If polarity of the power is connected in the opposite direction, the inner circuit can be damaged.
- Take care of direction of the connector in order not to mount it in the opposite direction.
- If the display indicate 1 or-1, be sure to turn off the power and check external connection, in this case the input signal is higher than full scale range or the power is lower than the rated voltage.