

## MODEL: P-496



CE

### FEATURES

- Accuracy  $\pm 0.25\%$  (AC)  $\pm 0.1\%$  (DC)
- Easy-to-wire screw-type terminals
- Arbitrary scale is available
- Data holding is available
- Outside dimension is DIN standard (96X48mm)

### SPECIFICATION

#### • Direct Input

| Variable to be Measured    | Order Code | Measuring Range | Resolution | Input Impedance        |
|----------------------------|------------|-----------------|------------|------------------------|
| DC<br>•<br>AC<br>•<br>TRMS | A1         | 199.9mA         | 0.1mA      | 1K $\Omega$            |
|                            | A2         | 1.999mA         | 0.001mA    | 100 $\Omega$           |
|                            | A3         | 19.99mA         | 0.01mA     | 10 $\Omega$            |
|                            | A4         | 199.9mA         | 0.1mA      | 1 $\Omega$             |
|                            | A5         | 1.999A          | 0.001A     | 0.1 $\Omega$ */0.5VA** |
|                            | A6         | 15.00A          | 0.01A      | 0.1 $\Omega$ */0.5VA** |
|                            | V1         | 199.9mV         | 0.1mV      | $\geq 5M\Omega$        |
|                            | V2         | 1.999V          | 0.001V     | $\geq 1M\Omega$        |
|                            | V3         | 19.99V          | 0.01V      | $\geq 1M\Omega$        |
|                            | V4         | 199.9V          | 0.1V       | $\geq 1M\Omega$        |
|                            | V5         | 750V            | 1V         | $\geq 1M\Omega$        |

#### • Ratio Input (Secondary of CT, PT)

| Variable to be Measured | Order Code | Input Range | Scaling Range                                                                                                                 |
|-------------------------|------------|-------------|-------------------------------------------------------------------------------------------------------------------------------|
| AC<br>•<br>TRMS         | A7         | 1A          | 10 • 15 • 20 • 25 • 30 • 40 • 50 • 60 • 75 • 100<br>150 • 200 • 250 • 300 • 500 • 1000<br>1200 • 1500 • 2000A.....Other range |
|                         | A8         | 5A          |                                                                                                                               |
|                         | V6         | 110V        | 440V • 600V • 3.3KV • 6.6KV • 6.9KV<br>11KV • 12KV • 22KV • 24KV • 33KV<br>69KV.....Other range                               |
|                         | V7         | 220V        |                                                                                                                               |

#### • Receiving Meter

| Variable to be Measured    | Order Code | Input Range | Input Impedance | Scaling Range         |
|----------------------------|------------|-------------|-----------------|-----------------------|
| DC<br>•<br>AC<br>•<br>TRMS | P1         | 0~50mV      | $\geq 5M\Omega$ | 0~1999<br>(arbitrary) |
|                            | P2         | 0~60mV      | $\geq 5M\Omega$ |                       |
|                            | P3         | 0~100mV     | $\geq 5M\Omega$ |                       |
|                            | P4         | 0~1V        | $\geq 1M\Omega$ |                       |
|                            | P5         | 1~5V        | $\geq 1M\Omega$ |                       |
|                            | P6         | 0~10V       | $\geq 1M\Omega$ |                       |
|                            | P7         | 0~1mA       | 100 $\Omega$    |                       |
|                            | P8         | 4~20mA      | 10 $\Omega$     |                       |
|                            | P9         | 0~20mA      | 10 $\Omega$     |                       |

Remark: \*Built-in shunt 0.1  $\Omega$

\*\*Built-in isolated CT 0.5VA burden, for AC current input range from 5A & 15A.

Digit & display: 3 1/2 (1999), 0.56"(14.2mm) H  
Max. Input over capability: Amp. 3 X rated continuous  
10 X rated 10 seconds  
50 X rated 1 seconds  
Volt. 1.2X rated continuous  
1.5X rated 10 seconds

Measuring accuracy:  $\pm 0.1\%$  F.S.  $\pm 1$  digit (DC)  
 $\pm 0.25\%$  F.S.  $\pm 1$  digit (AC, TRMS)

Aux. Power supply: AC 110V/220V  $\pm 10\%$ , 50HZ or 60Hz  
DC 12V, 24V, 48V  $\pm 10\%$  (isolation)

Measuring mode: Dual slope  
Input mode: single-end input  
Sampling time: Abt. 0.3 sec. (standard)  
Frequency range: 45~400HZ, only for AC, TRMS range  
Span adjustment: Arbitrary adjustment  
Ratio adjustment: 8 step changeable range, see figure A.  
Operating temperature range: 0~60°C  
Storage temperature range: -10~70°C  
Temperature coefficient:  $\leq 100$ PPM/°C, (50PPM/°C, special)  
Max. relative humidity: 95%  
Over input indication: "1"  
Polarity display: Only "-" display  
Noise elimination ratio: CMRR over 86dB 50/60HZ  
Power consumption:  $\leq$  AC 4.5VA,  $\leq$  DC 3W  
Dielectric withstand voltage: Between analog input and power terminals: AC, 2KV for 1 Min.  
Between terminals and case: AC 4KV for 1 Min.  
Impulse withstand test: 4KV, 1.2 X 50  $\approx$  340 g  
Weight (about): 340 g

#### • Figure A

| Step No. | Ratio Change Jumper | Display Range | Decimal Point Change Jumper | Decimal Point Display |
|----------|---------------------|---------------|-----------------------------|-----------------------|
| 1.       |                     | 1500~1999     |                             | 888.8                 |
| 2.       |                     | 1000~1800     |                             | 88.88                 |
| 3.       |                     | 800~1400      |                             |                       |
| 4.       |                     | 700~1200      |                             | 8.888                 |
| 5.       |                     | 550~1000      |                             |                       |
| 6.       |                     | 400~650       |                             |                       |
| 7.       |                     | 250~450       |                             | .8888                 |
| 8.       |                     | 180~300       |                             |                       |

(Detail as operation manual)

## MODEL: P-496

### ORDERING MODEL MAKE UP

**Model** P-496-        

**Variable to be Measured**  

D: DC  
A: AC  
T: TRMS

**Measuring Range**  

A1 : 199.9  $\mu$ A  
A2 : 1.999mA  
A3 : 19.99mA  
A4 : 199.9mA  
A5 : 1.999A  
A6 : 15.00A  
V1 : 199.9mV  
V2 : 1.999V  
V3 : 19.99V  
V4 : 199.9V  
V5 : 750V  
(Ratio input, appointed scale)  
A7 : 1A  
A8 : 5A  
V6 : 110V  
V7 : 220V  
(Receiving meter, appointed scale)  
P1 : 0~50mV  
P2 : 0~60mV  
P3 : 0~100mV  
P4 : 0~1V  
P5 : 1~5V  
P6 : 0~10V  
P7 : 0~1mA  
P8 : 4~20mA  
P9 : 0~20mA  
00 : Option

**Aux. Power Source**  

A : AC 110V/220V  
B : DC 12V  
C : DC 24V  
D : DC 48V  
O : Option

**Indicating Mode**  

0 : None  
1 : Arbitrary scale.

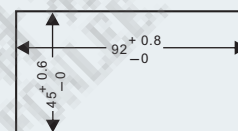
### EXAMPLE

Measured range : AC 200V  
Aux. power source : AC 110V/220V  
Ordering model: P-496-AV4A0  
Input range: DC 4~20mA  
Scaling range: 0~100.0%  
Aux. Power source: AC110V/220V  
Ordering model : P-496-DP8A0

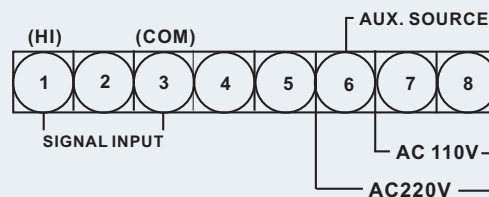
### THE OUTSIDE DIMENSION



### PANEL CUT-OUT



### CONNECTION DIAGRAM



### DC aux. power source

