

■ Effectice Power Panel Meter UI 354 / UI 357 and UI 359

Deliverable Types

- **Effective power panel meter Type UI 354**
Display range **3999**
- **Effective power panel meter Type UI 357**
Display range **9999**
- **Effective power panel meter Type UI 359**
Display range **19999**

General

The digital panel meters of serie UI 354, UI 357 and UI 369 are effective power panel meter for industrial area. Depents of the type of panel meter the display range to extend over 3999 to 19999. The overflow will be indicated at the display "- - - -".

Input ranges

The maximal voltage to connected at the effective power panel meter is 400 V.

The maximal current to connected at the effective power panel meter is 1 A (Higher currents are realisable with an external shunt or current transformer).

Please specify the maximal power, the maximal voltage and the maximal current at order.

For example type UI 354:

Voltage	max. 400 V
Current	max. 20 A (Current transformer)
Power	max. 3999 kW

Function

The current input and the voltage input have a common ground point. This version is specify expecially at DC power measurement or by using of an external current transformer.

Construction

The panel meters have a very liminous intensity display. The numeral are 16 mm, so the display is still very good legible even from a distance of 10 m. The colour of the display is red (optional green). To improve the contrast the panel meters have a red (optional green) filter plate on the display.

The panel meters are placed in a high-impact DIN standard case 96 x 48 x 107 mm. To connect the input and output signals there are screw terminals ath the rear. The front frame colour is black. (Optional grey RAL 7037, grey RAL 7032 or grey RAL 7035). The installation depth inclusive the srew terminals is 118 mm. To mount the instrument in the panel a clamping frame is available.

Decimal point

If a decimal point is used please specify it at the order (f.e. 1 A/ 400 V = 399.9 W).

Power supply

The panel meters contains an integrated power supply. The power supply is interpreted for 230 V AC. Optional the panel meters are deliverable for the power supply 115 V AC, 24 V AC or 18 .. 36 V DC. The power supply is isolated from the further electronic.

Adjustment

The panel meters are precalibrated. When deliverd no adjustment is necessary. If a new adjustment is required ther are two potentiometers P1 and P2 at the rear. It is possible to vary the input offset at P1 and the scale factor at P2.

Service Instruction

At power supply 230 V AC resp. 115 V AC or 24 V AC The power must be connected to screw terminal 7 (L1) and screw terminal 8 (N), ground to screw terminal 9 (PE). At power supply 18 to 36 V DC the power supply must be connected to screw terminal 8 (+) and 7 (-). Attention must be paid that the power supply will agree with the voltage noticed at the name plate.

The voltage input signal must be connected to screw terminal 5 and 6. Screw terminal 6 must be the zero conductor. The current input signal must be connected to screw terminal 4 and 6. 6 (U_E resp. I_E) and screw terminal 6 (Analog-Gnd). Screw terminal 6 must be the zero conductor, too.

Electrical Data

Voltage input	max. 400 V
Input resistance	> 1 M Ω
Current input	max. 1 A
Input voltage	max. 200 mV
Accuracy	< 0,5 % f.s. \pm 1 Digit
Conversion rate	approx. 2-3 measurings per sec
Temperature coefficient	< 30 ppm/K
Offset adjustment	P1, approx. \pm 20 Digit
Full scal adjustment	P2, approx. \pm 5% v. Mb.
Decimal point	at factory
Power supply voltage AC	230 V, +6%/-10%, 50/60 Hz
optional	115 V, +6%/-10%, 50/60 Hz 24 V, +6%/-10%, 50/60 Hz
Isolation voltage	2,5 kV / 1 min
Power supply voltage DC	18 .. 36 V DC
Isolation voltage	500 V / 1 min
Power consumption	AC 4,6 VA, DC 70 mA

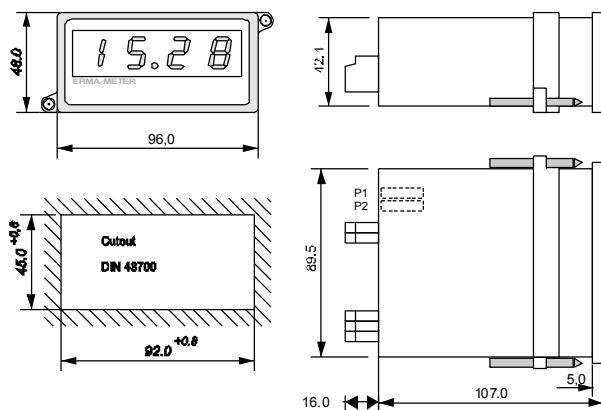
Mechanical Data

Display	16 mm, red (optional green)
Display range	
UI 354	max. 3999
UI 357	max. 9999
UI 359	max. 19999
Decimal point	setting at factory
Case	switch board mounting DIN 43700
Dimension (B x H x T)	96 x 48 x 107 mm
Depth	118 mm incl. screw terminal
Mounting	switch board mounting
Weight	approx 300 g
Connections	screw terminal

Environment conditions

Operating temperature	0 .. 50 °C
Storage temperature	-20 .. 70 °C
Humidity	< 80 %, not-condensing
Protection	protective class II
Front protection	IP 40
Field of application	class 2 overvoltage protection II
CE	in conform with 89/336/EWG NSR 73/23/EWG

Dimensions amd Mounting



Ordering Information

UI 35x-	0				
Housing					
0 Switch board					
Front frame colour					
0 black					
1 grey RAL 7037					
2 grey RAL 7032					
3 grey RAL 7035					
Front design					
0 ERMA-Meter Logo					
1 No Logo					
Power supply					
0 230 V/AC					
1 115 V/AC					
2 24 V/AC					
3 18 .. 36 V/DC, isolated					
Display colour					
0 red					
1 green					
Reserve					

Unit overprint

Please specify in clear text at order !

Screw termianl indication

screw terminal 9	ground PE
screw terminal 8	power supply N
	or power supply (+)
screw terminal 7	power supply L1
	or power supply (-)
screw terminal 6	signal-GND
screw terminal 5	voltage signal input U _E
screw terminal 4	current signal input I _E

