

G0044 Wattmeter 3 ph - Powertek ISW 8300

Modell - Modèle - Modello	Powertek ISW 8300
Jahr - année - anno	2012 - wenig gebraucht - peu utilisé - poco usato
Voltage	15 - 50 - 150 - 500 V (true RMS)
Current (true RMS)	0.5 - 1.5 - 5 - 15 A (internal) 0.5 - 5000 A with external transformer
Active Power P	5.5 - 7500 W (16 ranges) 7.5 W - 2500 kW with external transformer
Apparent Power S	7.5 - 7500 VA (16 ranges) 7.5 VA - 2500 kVA with external transformer

Notes : V = measured value R = range

Voltage (true RMS)

Ranges : 15V 50V 150V 500 V
Resolution : 10mV 10mV 100mV 100mV
Accuracy (45-500 Hz) : $\pm(0.2\% V + 0.2\% R)$
Input resistance : $4.8M\Omega // 100pF$
Manual or autoranging
Crest factor : max. 3 at full scale (1.5 at 500 V)
Overload : 1000 V peak

Current (true RMS)

Ranges : 0.5A 1.5A 5A 15 A (internal)
0.5A to 5000A with external transformer
(selectable ratio 1 to 1000)
Resolution : 0.1mA 1mA 1mA 10mA (internal)
0.1mA to 1A (external)
Accuracy (45-500 Hz) : $\pm(0.2\% V + 0.2\% R)$
Crest Factor : max. 3 at full scale (2 at 15 A)
Manual or autoranging
Overload : 30 A continuous, 60 A 1s

Active Power

Ranges : 7.5W to 7500W (16 ranges)
7.5W to 2500kW with external transformer
Accuracy (45-500Hz) : $\pm(0.3\% V + 0.3\% R)$ (U and I > 1/10 of range)
Resolution : 1mW to 1W according to range
1mW to 1kW with external transformer

Apparent Power

Ranges : 7.5VA to 7500VA (16 ranges)
7.5VA to 2500kVA with external transformer
Accuracy (45-500Hz) : determined by U and I accuracy (see formulas)
Resolution : 1mVA to 1VA according to range
1mVA to 1kVA with external transformer



Reactive Power

Ranges : 7.5VAr to 7500VAr (16 ranges)
7.5VAr to 2500kVAr with external transformer
Accuracy (45-500Hz) : determined by U and I accuracy (see formulas)
Resolution : 10mVAr to 1VAr according to range
10mVAr to 1kVAr with external transformer

Power Factor

Display : -1.000 to +1.000 (plus sign indicates inductive power,
minus sign indicates capacitive power)
Accuracy (45-500Hz) : determined by U and I accuracy (see formulas)

Safety : CEI 1010-1 Cat III 600 V

Interface

RS232 (3 wires). Xon-Xoff. protocol
Transmission rate 1200/9600 Baud
All functions and ranges programmable

Power :

230 V $\pm 10\%$, 50-60 Hz, max. 10 VA

Temperature of utilisation

10-40 °C RH < 80 %

Dimensions

240 x 240 x 88mm (L x l x H)

Weight

about 1,5kg

Misc. :

Simultaneous display of 4 parameters
(10mm LED display).
Beeper indicates overload.