PX 120 and PX 110

TRMS three- and single phase digital wattmeters

For measurements on-site or in a laboratory, a new concept: the digital power meter!

- DC or AC TRMS networks: balanced single-phase (PX 110) or three-phase (PX 120)
- Voltage, current, active/reactive/apparent powers and power factor measurements
- High degree of sensitivity
- Simple and quick implementation with direct access keys
- Numerous automatic functions: current range switching, HOLD, filtering, starting current, etc.
- Excellent readability: 3 quantities displayed simultaneously with a digit height of 14 mm
- Digital transmissions protected by infrared communication interface
- Mains power supply (optional)

metrix

The choice of professionals

PX 120 and PX 110: TRMS three- and single phase digital wattmeters

More than a wattmeter, a power meter!

Given their wide measuring range and their sensitivity, the PX 120 and PX 110 are intended for both general teaching and vocational training; examples of which are installers and company maintenance departments. To be more precise, their ability to measure RMS values in AC + DC (or TRMS) enables them to carry out measurements in the 4 quadrants on signals which are disturbed and polluted by harmonics. For these applications the PX 120 and 110 go well beyond the functions generally available on traditional wattmeters. That is why we should be talking about a new breed of instrument: the power meter!
The only difference between the two models is that the PX 120 measures powers using the three-phase three balanced wire system, whereas the PX 110 is reserved for single-phase networks.

Easy implementation

Although they offer elaborate functions, the PX 120 and PX 110 are very simple to implement. Each of the five (PX 110) or six (PX 120) keys corresponds to a single clearly identifiable function. The latter is then accessible via a single press of the key. Finally, the automatic change of range means that the user avoids having to carry out any adjustments. The instrument can be powered by batteries or the mains power supply.

User comfort and sturdiness

Their casing reinforced with an elastomer mould gives these instruments an excellent handholding capability and a sturdiness which is second to none.
In the event of it being used on a table, a stand allows the instrument to be propped up at an angle of 30°, thus making it easier to read the results. This stand is retracted into its housing on the back of the casing when measurements are carried out on site.

Starting current

There are loads, such as engines, some heating resistors or lighting systems which, when started up, cause a considerable rush of current. Although they last only a short time, these currents can trigger the safety devices or even damage an installation. To counter this, the PX 120 and PX 110 are provided with the INRUSH function, which consists in measuring the maximum value of the samples over a half-period (with this value being maintained until a new and higher value is measured).

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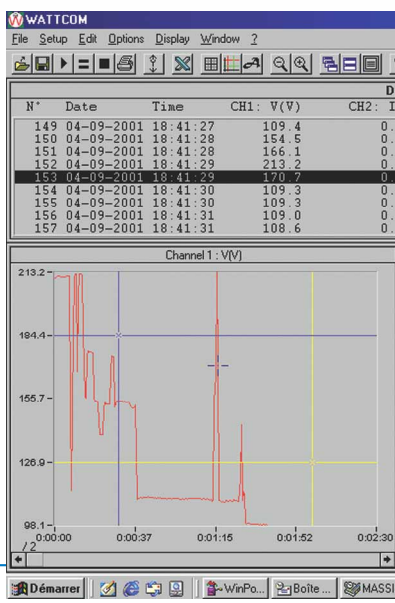
Owing to their stand, the PX 120 and PX 110 are as much at ease on a table as in your hand.

Multilingual data acquisition and processing software package.



PX 120 and PX 110: TRMS three- and single phase digital wattmeters

TECHNICAL CHARACTERISTICS	PX 120	PX 110
Network type	single-phase and three-phase 3 balanced wire (T3FE)	Single-phase
Number of counts	3 lines of 4 digits (14 mm)	3 lines of 4 digits (14 mm)
Bandwidth	DC to 1 kHz	DC to 1 kHz
Active power		
Range	10 W to 1 kW – 1 kW to 6 kW	10 W to 1 kW – 1 kW to 6 kW
Resolution	0.1 W – 1 W	0.1 W – 1 W
Basic AC / DC accuracy	1.5% R ± 2 digits / 2.5% R ± 5 digits	1.5% R ± 2 digits / 2.5% R ± 5 digits
Apparent/reactive power*		
Range	10 to 1 k – 1k to 6 k	10 to 1 k – 1k to 6 k
Resolution / Basic accuracy VA	1.5% R ± 2 digits / 1% R ± 2 digits	1.5% R ± 2 digits / 1% R ± 2 digits
Resolution / Basic accuracy VAR	2% R ± 2 digits	2% R ± 2 digits
Power factor		
Range	1.00	1.00
Resolution	0.01 / 3% R ± 2 digits	0.01 / 3% R ± 2 digits
Voltage		
Range	0.5 to 600 V RMS	0.5 to 600 V RMS
Resolution	100 mV	100 mV
Basic AC/DC accuracy	0.5% R ± 2 digits / 1% R ± 3 digits	0.5% R ± 2 digits / 1% R ± 3 digits
Input impedance	1 MΩ	1 MΩ
Current		
Range	10 mA to 2 A - 2 A to 10 A RMS	10 mA to 2 A - 2 A to 10 A RMS
Resolution	1 mA – 10 mA	1 mA – 10 mA
Basic AC/DC accuracy	0.7% R ± 5 digits / 1.5% R ± 5 digits	0.7% R ± 5 digits / 1.5% R ± 5 digits
Starting current		
Range	5 A – 65 A (peak)	5 A – 65 A (peak)
Resolution / Accuracy	100 mA / 10% R ± 2 digits	100 mA / 10% R ± 2 digits

*Apparent power = VA – reactive power = VAR – In three-phase, the measurement is only exact for sinusoidal signals.

GENERAL CHARACTERISTICS	PX 120	PX 110
Interfaces and software	yes	yes
Operating temperature	0 to 50°C	0 to 50°C
Storage temperature	-40 to 70°C	-40 to 70°C
Power supply	6 batteries of 1.5 V (LR6) / mains	6 batteries of 1.5 V (LR6) / mains
Autonomy	40 hours	40 hours
Dimensions (depth x length x height)	60 x 108 x 211 mm	60 x 108 x 211 mm
Weight	835 g	835 g
IEC 61010 safety standard	600 V, Cat. III, pollution level 2	600 V, Cat. III, pollution level 2
Guarantee	1 year	1 year

Characteristics subject to modifications according to technological developments.

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