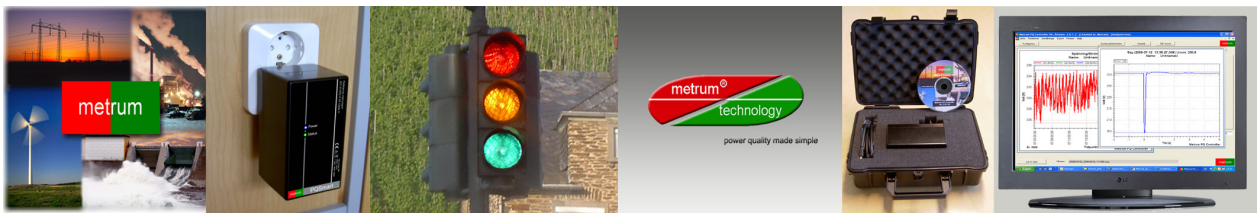

metrum PQSmart®

UNIQUE 2-CHANNEL CLASS A POWER QUALITY UNIT

Extremely easy-to-use!

The metrum PQSmart® is a unique 2-phase instrument since it can be used as reference instrument fulfilling the Class A standard.

It is extremely easy-to-use, just plug it into the 230V jacket and it will start measuring the power quality according to specified norm.

Metrums IMU® - koncept

The metrum PQ Smart® is based on Metrums intelligent measurement platform and will therfore be able to do all norm analysis direct at site.

The Metrum IMU® - concept will show green light if OK and red light if the measurement is Failed.

It can´t be any easier!

(IMU® = Intelligent Measurement Unit)

2 Voltage channels

- The instrument records both PHASE-NEUTRAL and PH./NEUTRAL -GROUND
- Class A, IEC61000-4-30
- All PQ parameters measured according to selectable norm (EN 50 160/FoL etc)
- Selectable settings for SAG/ SWELL and TRANSIENT disturbances

USB-communication port (2.0)

- Plug & play, no drivers needed

Metrum PQ Software included

- Configuration, Analysis and Reports - all included!

metrum

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E-mail: info@metrum.se Homepage: www.metrum.se

metrum PQSmart®

Technical specification

Parameters	Specification	Information	PQSmart®
Inputs			
Voltage inputs (Phase-Neutral)	0-300 V RMS	230 V AC nominal, 50Hz	1
Voltage inputs (Ph./Neutral-Ground)	0-300 V RMS		1
Power supply			
Power supply input		Supplied by voltage input	Yes
Internal backup			Yes
Norm conformity			
IEC 61000-4-30, Class A	< 0,1 %	Reference instrument	Yes
IEC 61000-4-7		Harmonic measurements	Yes
IEC 61000-4-15		Flicker measurements	Yes
EN 50 160 (European norm)		Calculated in the unit	Yes
FoL (Norwegan norm)		Calculated in the unit	Yes
PQDIF format			Yes
Hardware			
Memory (Internal)		Flash memory (NAND), Circular	64 MB
Sampling-rate			12,8 kHz (x2)
Accuracy		Class A (61000-4-30)	< 0,1 %
Resolution			16 bit
Input impedance voltage inputs			10 MOhm
Anti-alias filter			Yes
- Bandwidth			3,5 kHz
PLL-synchronisation			Yes
Communication			
USB-port	2.0 (Full-speed)	For computer connection, no drivers needed	Yes
Measurement features			
All PQ parameters measured and stored for long time		Voltage (avg/min/max), Frequency, THD, Harmonics (up to 50th), Flicker (Ifl/Pst/Plt)	Yes
Fast disturbance analysis		Sag/Swell (1/2 cycle RMS), Transients	Yes

Mechanical data

Case	Socket case for LV sockets	Humidity	10% - 85%, non-condensing
Size (L x W x H)	120 x 65 x 65 mm		
Weight	0,3 Kg	Safety	EN 61 010-1
Operational temperature	-10°C to +55°C	EMC	EN 50 081-1,2; EN 50 082-1,2

- Metrum Sweden AB reserves the right to change information and technical specification described in this brochure -

Metrum PQSmart® package including special instrument case and software.

Our local sales representative:

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