



ORDER CODE HV000421

# XL421

TRMS SINGLE-PHASE CURRENT DATA LOGGER



XL421 is a **Data Logger** capable of measuring and recording the true root mean square (TRMS) value of AC current up to **2500A** in **single-phase** electric systems for different applications (evaluation of load currents, rated powers of transformers, etc.). The device is enclosed in a practical waterproof plastic case with integrated flex clamp jaws able to surround also a big-sized cable or bar. Thanks to an advanced memory management algorithm it is possible to monitor a system even for a long time. The device starts recording with a **sampling period** which can be selected through software among 1, 6, 30 and 60 seconds and, when memory is almost full, the previously recorded values are "re-sampled" according to the subsequent value of the sampling period, thus freeing part of the memory; the device then goes on recording new values, using the new measuring interval. In this way, it is possible to keep the device recording up to **approximately 1 year**. Each recording is kept stored in the internal memory and can be **downloaded and managed by PC** always through a dedicated software. Data Logger XL421 is also provided with a special adhesive strap which makes it possible to place it in any place in the installation where measuring is needed. The high protection rating (**IP65**) makes this device fully reliable also under extreme operating conditions.

## Functions and characteristics

- TRMS single-phase current measurement
  - Measuring range: 1 ÷ 2500A AC
  - Accuracy:  $\pm(1.0\% \text{reading} + 1 \text{ digit})$
  - Resolution: 1A
  - Operating frequency: 50 $\pm$ 6Hz, 60 $\pm$ 6Hz
  - Bandwidth: 3200Hz
  - Sampling frequency: 64 spots in 20ms
  - Integration period: 1s, 6s, 30s, 60s, 5min
  - Memory capacity: 1Mbyte
  - Serial interface: RS-232
  - Integration period.....duration in days:
    - 1s.....5
    - 6s.....34
    - 30s.....170
    - 60s.....364(\*)
    - 5min .....1820(\*)
  - Front panel indication: LED diodes
  - Power supply: 2x1.5V batteries type AA LR6
  - Battery life: >6months (with loaded batteries)
  - Safety: IEC/EN 61010-1
  - Measurement category: CAT IV 600V (to earth)
  - Insulation: Double insulation
  - Pollution level: 2
  - Mechanical protection index: IP65
  - Max height: 2000m
  - Max diameter of flex clamps: 174mm
  - Size (LxWxH): 120x80x43 mm
  - Weight (batteries included): approx. 0.5kg
- \*according to battery duration*

## Accessories provided

VELCRO	Adhesive strap 50x70mm
TOPVIEW2004	Windows software for PC + serial cable C2004
BORSA 2000	Soft carrying bag
	Batteries
	User Manual

## Optional accessories

C2009	RS232-USB adapter
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