

DATA LOGGERS

Measurement category

Provided PC interface with software for Windows

Power supply

Order code

Size (LxWxH) (mm)

Weight (batteries included)

Reference standard for safety







CAT IV 600V CAT III 1000V

2x Batteries AA

120x80x43

500g

IEC/EN61010-1

HV000423



CAT IV 600V CAT III 1000V

2x Batteries AA

120x80x43

500g

IEC/EN61010-1

HV000424

XL422 XL423 XL421

CAT IV 600V CAT III 1000V

2x Batteries AA

120x80x43

500g

IEC/EN61010-1

HV000422

MAIN MEASUREMENTS	DATA LOGGERS				
TRMS	•	•	•	•	
AC voltage in single-phase/three-phase systems	-	-	• Single-phase	Single-phase / three-phase	
AC current in single-phase/three-phase systems	• Single-phase	Single-phase / three-phase	-	-	
MEMORY AND RECORDING					
Max number of simultaneously selectable parameters	1	3	1	3	
Recording with selectable integration period	1s, 6s, 30s, 1min, 5min	1s, 6s, 30s, 1min, 5min	1s, 6s, 30s, 1min, 5min	1s, 6s, 30s, 1min, 5min	
Indicative memory duration (single-/three-phase in days @ Pl=5min)	455	455 / 1820*	455	455 / 1820*	
Internal memory capacity	1MB	1MB	1MB	1MB	
ADDITIONAL CHARACTERISTICS					
Protection rating	IP65	IP65	IP65	IP65	

CAT IV 600V CAT III 1000V

2x Batteries AA

120x80x43

500g

IEC/EN61010-1

HV000421

* According to battery duration.

35



ORDER CODE **HV000421** | **HV000422**

XL421|XL422

TRMS SINGLE-PHASE AND THREE-PHASE CURRENT DATA LOGGER

XL421 and XL422 are Data Loggers capable of measuring and recording the true root mean square (TRMS) value of AC current up to 2500A AC in, according to the model single-phase or three-phase, electric systems for different applications (evaluation of load currents, rated powers of transformers, etc.). The devices have a comfortable mobile structure with integrated flex clamp jaws which allow surrounding also a big-sized cable or bar. Thanks to a an advanced memory management algorithm it is possible to monitor a system even for a long time. The devices start 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 devices then go 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 according to the model. Each recording is kept stored in the internal memory and can be downloaded and managed by PC always through a dedicated software. A special adhesive strap is also provided with the devices, which makes it possible to place them in any place in the installation where measuring is needed. The high protection rating (IP65) makes these devices fully reliable also under extreme operating conditions.



ORDER CODE HV000423 | HV000424

XL423|XL424

TRMS SINGLE-PHASE AND THREE-PHASE VOLTAGE DATA LOGGER

XL423 and XL424 are **Data Loggers** capable of measuring and recording the true root mean square (TRMS) value of Voltage up to 600V AC or, according to the model, in single-phase or three-phase electric systems, for different applications (evaluation of mains voltage, load unbalance, etc.). The devices have a comfortable mobile structure with integrated flex clamp jaws which allow surrounding also a big-sized cable or bar. Thanks to a an advanced memory management algorithm it is possible to monitor a system even for a long time. The devices start 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 devices then go 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 according to the model. Each recording is kept stored in the internal memory and can be downloaded and managed by PC always through a dedicated software. A special adhesive strap is also provided with the devices, which makes it possible to place them in any place in the installation where measuring is needed. The high protection rating (IP65) makes these devices fully reliable also under extreme operating conditions.

Functions and characteristics

- TRMS single-phase current measurement (XL421)
- TRMS three-phase current measurement (XL422)
- Measuring range: 1 ÷ 2500A AC
- Accuracy: ±(1.0%reading+1 digit)
- Resolution: 1A
- Operating frequency: 50±6Hz, 60±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:

- · 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



Included accessories

VELCR0	Adhesive strap 50x70mm
TOPVIEW2004	Windows software for PC + serial cable C2004
BORSA 2000	Soft carrying bag (XL421)
BORSA75	Soft carrying bag (XL422)
	Batteries
	User Manual



Optional accessories

C2009 RS232-USB adapter

0

Functions and characteristics

- TRMS single-phase voltage measurement (XL423)
- · AC TRMS three-phase voltage measurement (XL424)
- Measuring range: 0 ÷ 600VAC
- Accuracy: ±(1.0%reading+1 digit)
- Resolution: 0,1V
- Operating frequency: 50±6Hz, 60±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:

- 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
- Size (LxWxH): mm 120x80x43
- Weight (batteries included): approx. 0.5kg
- * According to battery duration



Included accessories

KITXL424C	Set of 4 alligator clips
VELCR0	Adhesive strap 50x70mm
TOPVIEW2004	Windows software for PC + serial cable C2004
BORSA2000	Soft carrying bag
	Batteries and User Manual



Optional accessories

C2009	RS232-USB adapter
606-IECN	Connector with magnetic terminal

36