

XL421 - XL422 - XL423 - XL424

DATA LOGGERS FOR SINGLE-PHASE AND THREE-PHASE TRMS CURRENT AND VOLTAGE

XL421, XL422, XL423 and XL424 are innovative portable Data Loggers, capable of measuring AC current and voltage in real efficient (TRMS) value up to 2500A and 600V respectively, in single-phase or three-phase electric systems. These instruments are very useful especially in the industrial sector (evaluations of electric load consumption, verification of nominal power of transformers, measurement of mains voltage, unbalanced loads, etc.) and are extremely versatile due to their small size, thanks to which they are easily installed also as panel units. These models are enclosed in a practical and safe plastic case, with a high mechanical protection index IP65 (protected both against dust and water sprays); they are, therefore, suitable for use in common industrial environments. These models are provided with appropriate in-built flexible clamps or cables with alligator clips respectively, which allow safely carrying out current and voltage measurements (also on cables and/or big bars). Thanks to a sophisticated internal memory algorithm, continuous recordings are possible also for prolonged time intervals and, therefore, it is possible to accurately monitor electric mains. Further to internal programming, the provided Windows software allows downloading and analyzing on the PC the results of the recordings, in order to produce useful print reports on measurements. Clear LED indications on the front panel allow a simple use, also by non-expert users.

FUNCTIONS	XL421	XL422
TRMS current measurement	Single phase	Three phase
Measurement range	1 ÷ 2500A AC	
Accuracy	±(1.0%rdg+1dgt)	
Resolution	1A	
Frequency range	50±6Hz, 60±6Hz	
Bandwidth	3200Hz	
Sample rate	64 points in 20ms	
Integration period	1s, 6s, 30s, 60s, 5min	
Memory size	1Mbyte	
PC serial interface	RS-232	
Integration period	Recording duration (days)	
1s	5	1,5
6s	34	8
30s	170	42
60s	364(*)	91
5min	1820(*)	455(*)

(*) Depending on battery life

FUNCTIONS	XL423	XL424
TRMS current measurement	Single phase	Three phase
Measurement range	0 ÷ 600V AC	
Accuracy	±(1.0%rdg+1dgt)	
Resolution	0.1V	
Frequency range	50±6Hz, 60±6Hz	
Bandwidth	3200Hz	
Sample rate	64 points in 20ms	
Integration period	1s, 6s, 30s, 60s, 5min	
Memory size	1Mbyte	
PC serial interface	RS-232	
Integration period	Recording duration (days)	
1s	5	1,5
6s	34	8
30s	170	42
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(*) Depending on battery life

GENERAL SPECIFICATIONS	
Front panel indication	LED
Power supply	2x1.5V batteries type AA LR6
Battery life	>6months (fully charge batteries)
Safety	IEC/EN61010-1
Measurement category	CAT IV 600V (to ground)
Insulation	double insulation
Pollution degree	2
Mechanical protection index	IP65
Max altitude	2000m
Max diameter of flexible clamps	174mm (only XL421 and XL422)
Dimensions (LxWxH):	120x80x43mm
Weight (batteries included)	500g

ACCESSORIES	Code
Standard	
Integrated flexible clamp 3000A (1 pcs for XL421, 3 pcs for XL422)	HTFLEX33DL
Set of 2 test leads with alligator clips (only XL423)	KITXL423C
Set of 4 test leads with alligator clips (only XL424)	KITXL424C
Adesive velcro 50x70mm	VELCRO
PC Windows software with RS-232 cable	TOPVIEW2004
Carrying bag	BORSA2000
Batteries	
User manual	
Optional	
USB to RS-232 adaptor	C2009

