

ULYS MD45-M & ULYS TD100-M

MID METERS FOR AC ELECTRIC VEHICLE CHARGING STATIONS









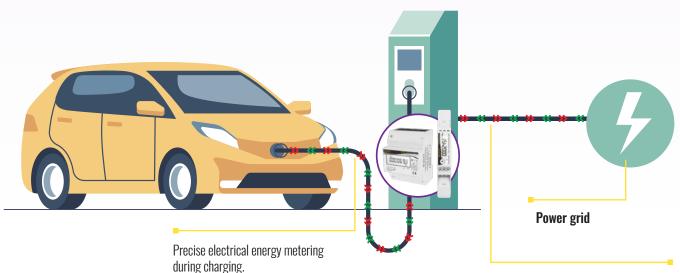


The ULYS MD45 and ULYS TD100 can be used to meter the energy injected and drawn with the required accuracy for MID certification

Choose these high-quality, rugged meters which are simple to integrate in your charging stations

The energy meter at the heart of the charging system

Trustworthy regulatory transactions for sharing the energy costs of charging.



In the future, it will be possible to meter the energy injected into the power grid by the EV.



Our five major strengths



A solution compliant with the MID directive:

Suitable for electrical energy metering and billing transactions



Reliable, accurate measurement:

Guaranteed accuracy over time (class 1)



Direct connection up to 100A for three-phase:

Quick, simple integration for all charging station power ratings



Metering of energy drawn / re-injected:

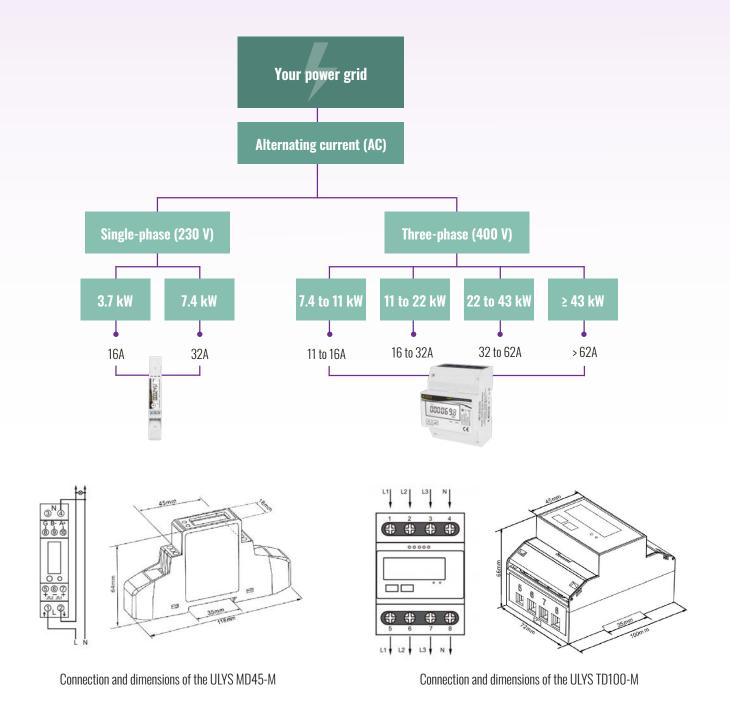
Meter compatible with the future Smart Grid networks and re-injection of energy into the grid (V2G)



Universal data access:

Simple, fast communication with your meters via the RS 485 Modbus RTU output

To choose your meter according to the power of your charging station



Where are they

installed?



On public roads

For private fleets (company, hotel, etc.)

Wallboxes for residential charging (private individuals)

	ULYS MD45-M	ULYS TD100-M	
Technical specifications	Single-phase grid	Three-phase grid	
Maximum rated current (Imax)	45 A	100 A	
Reference current (Iref)	5 A	10 A	
Starting current (Isk)	20 mA	40 mA	
Voltage input	230 Vac (-15/+10%)		
Consumption	≤ 2 W/Phase - ≤ 10 VA/Phase		
Frequency	50 Hz ± 10%		
Metrological LED	10000 lmp/kWh	1,000 pulses/kWh	
Pulse output weight	10,000/ 2,000/ 1,000/ 100/ 10/ 1/ 0.1/ 0.01 pulses/kWh	1,000/ 100/ 10/ 1 pulses/kWh	
Pulse output width	≤ 5,625 W 32 ms > 5,625 W 11.2 ms	35 ms	
Max. pulse output operating voltage	5 -27 Voc		
Max. pulse output operating current	≤ 27 mAdc		
Communication	RS485 Modbus		
Data storage	10 years without power		
Accuracy class	MID (Class 1)		
	Multi-measurement		
Active energy	Total, partial, import, export		
Reactive energy	Total, import, export		
Multi-measurement	P, Q, S, V, I, PF, F		
Bidirectional	Yes		
	Display		
Measuring circuit	10 mm ²	16 mm ²	
Pulse output	1.5 mm ²		
Communication	1.5 mm ²		
Dimensions			
Height with terminal covers	117 mm	100 mm	
Width	17.5 mm	72 mm	
Depth	63 mm	66 mm	
Weight	80 g 400 g		
Mounting	On 35 mm DIN rail		
Environment Control Con			
Operating temperature	-40°C to +70°C		
Usage	Indoors		
Altitude	2,000 m max.		
Humidity: Operation / Storage	≤ 75% / ≤ 95%	≤ 90% / ≤ 95%	
Ingress Protection	IP51 		
Protection class	II II		
FI	Standards		
Electromagnetic compatibility	EN61326-1:2013 & EN61326-2-3		
Low-Voltage directive	ENG1010-1 & 61010-2-30		
MID directive	EN50470-1 & EN50470-3		
To order	P01331081	P01331083	
See all our energy efficiency solutions at www.chauvin-arnoux-energy.com			

ULYS EV

Single-phase and three-phase meters particularly suited to applications in EV charging stations (EVCS).

RS485 Modbus RTU

Communicate with your meters in order to gather information on the universal electrical quantities: P, Q, S, V, I, PF, F.

Bidirectional

A single meter to measure the energy consumed and the energy pushed back into Smart GRID networks.







FRANCE Chauvin Arnoux Energy 16, rue Georges Besse

92182 ANTONY Cedex Tél: +33175 60 10 30 Fax: +33146 66 62 54 caenergy@chauvin-arnoux.com www.chauvin-arnoux-energy.com

UNITED KINGDOM Chauvin Arnoux Ltd

Unit 1 Nelson Ct, Flagship Sq, Shaw Cross Business Pk Dewsbury, West Yorkshire - WF12 7TH Tel: +44 1924 460 494 Fax: +44 1924 455 328 info@chauvin-arnoux.co.uk www.chauvin-arnoux.com

MIDDLE EAST Chauvin Arnoux Middle East P.O. BOX 60-154 1241 2020 JAL EL DIB - LEBANON Tol: 49611 890 425

Tel: +9611890 425 Fax: +9611890 424 camie@chauvin-arnoux.com www.chauvin-arnoux.com

