

MEMO & ULYS **Submeters**

Single-phase, three-phase, with direct connection or on CT

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DIEDY 0

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Integrated communication: Ethernet, M-Bus, Modbus

Metering, submetering, energy supervision, rebilling

Complete solution for implementing a metering plan

MID

TIF

CHAUVIN

88888

3x230/400V...3x240/415V 0.01-1(6)A 50/60Hz CLB -25, +55°C

CIW/XXX 1500 SIM





Measure to detect, allocate an

Energy efficiency is not just a social project, but an essential economic challenge in the context of **an action plan to** the sectors of the economy and all fields of activity.

The new regulations and certifications concerning installations, set up nationwide to encourage savings and reduce th



Energy Management Information System (EMIS) Chauvin Arnoux Energy, long acknowledged as a major player

METER – MEASURE

COLLECT – HISTORIZE

ANALYZE – ACT

nd monitor

control and reduce energy consumption. The incentives developed by all the policies internationally cover all

e impact on the environment, help to meet the requirements in terms of optimizing installations' energy performance.



Quite simply the most compre



See everything at a glance!

The meters in the MEMO range can be installed quickly and without parameter settings to meet your most basic metering needs.

• Clear display of your active energy index



For a sup Linking a netw

a PLC



Functions suited to each requirement

- From simple active energy metering to recording of all the electrical activity on your feeders
- Measurement and metering on single-phase or three-phase networks
- Direct connection up to 100 A or on CT
- Double tariff, partial, two-way and energy balance metering
- MID version for your rebilling applications
- Customizable display

Multiprotocol communicatio Modbus RS485, Ethernet, M

- Integrated in the ULYS MD45-M Modbus, MD10 TD80-M, TT and TT-M meters
- By use with communication modules for the ULY and TTA-M meters

hensive range...



ULYS METERS

FOR A HIGH-PERFORMANCE, CONNECTED METERING PLAN

nication (Modbus, M-bus, Etherputs in an extra-compact casing Fair, accurate rebilling MID, double tariff, partial metering **Customizable multi-measurement** Configurable display. Local and remote access, via web pages or push FTP



pervised submetering project

ork of meters from the ULYS range with ELOG data logger or



For advanced processing

The ULYS TD80 meters and their TT Ethernet versions autonomously record all the activity on an electrical feeder:

- Integrated web pages
- Alarms
- Recording of electrical quantities
- Transmission of the data onto ftp server
- Time synchronization



on: -bus

)O-M Modbus,

S TDA80-M, TTA

Time synchronization

- Compact design: 1 to 4 modules with built-in communication
- Simplified wiring. Clear separation of the measurement circuits and the related connections
- Error-free commissioning by checking the quantities displayed and using the CT ratio programming control loop

Choose the right meter...

			Single-	phase	Three-phase	Single-	phase
		Model	MEMO MD32	MEMO MD65	MEMO TD80	ULYS MD45-M	ULYS
		Range	32 A	65 A	80 A	45 A	
		MID Certification	по	по	по	yes	
		Accuracy class	, IEC class 1	IEC class 1	IEC class 1		
	Format	DIN Modules	1	2	4	1	
	Auxiliary power supply		Self-powered				
Installation	Rated measurement voltage		230 Vac	230 Vac	230/400 Vac	230 Vac	2
	Inputs	Direct	32 A	65 A	80 A	45 A	
		On current sensors	-	-	-	-	
Metering and energy management	Display and con	nmunication (if included)	Total kWh	Total and partial kWh	Total and partial kWh	kWh, total kVArh and partial kWh	kWh, to pai
Multimeasurement	Display and con	nmunication (if included)	-	-	-	V, I, P, Q, S, F, FP	V, I, F
Recordings / Push FTP		-	-	-	-		
Inputs / Outputs	Pulse output(s)		1	1	1	1	
	Tariff change input		-	-	-	ULYS MD45-M	ULYS
	RS485 Modbus		-	-	-	ULYS MD45-M Modbus	ULYS MD
Communication	Ethernet Modbus		-	-	-	-	
	M-bus		-	-	-)	-	

MEMO RANGE

To	order			
	MEMO MD32 P01330740	MEMO4 MD65 P01330741	MEMO TD80 P01330745	

ULYS MD45-M	ULYS
P01330754	PO
ULYS MD45-M Modbus	ULYS MD
P01330756	Po

Don't forget

Current transformer offer			
TC CLIP 100 A /1 A	TCR 100 A/ 1 or 5 A		
TC CLIP 250 A/1 A	TCR 150 A/ 1 or 5 A		
TC CLIP 400 A/1 A	TCR 200 A/ 1 or 5 A		
•••			

Communication modules (for ULYS TDA80-M / TTA / TTA-M)

Model	Reference
ULYSCOM MODBUS RS485	P01331030
ULYSCOM M-BUS	P01331031
ULYSCOM ETHERNET MODBUS TCP	P01331032

	Three-phase					
MD100-M	ULYS TDA80-M	ULYS TTA ULYS TTA-M	ULYS TD80 ULYS TD80-M	ULYS TT ULYS TT-M ULYS FLEX (Rogowski)		
		00000546	00000546	00000546		
00 A	80 A	On 1/5 A CT	80 A	On 1/5 A CT or 0.3 to 20 000 A Rogowski coil		
yes	yes	ULYS TTA-M	ULYS TD80-M	ULYS TT-M		
MID class B		IEC class 1 MID class B	IEC class 1 MID class B	IEC class 1 MID class B		
2	4	4	4	4		
Self-powered				Self-powered (except ULYS FLEX 85 265 Vac)		
10 Vac	230/400 Vac	230/400 Vac	230/400 Vac	230/400 Vac or 10/17 285/495 Vac (ULYS FLEX)		
00 A	80 A	-	80 A	-		
-	-	On 1/5A CT	-	On 1/5 A CT or Rogowski coil		
al kVArh and ial kWh	kWh, kVArh, kVAh: total, partial and per phase	kWh, kVArh, kVAh: total, partial and per phase	kWh, kVArh, kVAh: total, partial and per phase	kWh, kVArh, kVAh: total, partial and per phase		
Q, S, F, FP	V, U, I, P, Q, S, F, FP, ∑P, ∑Q, ∑S	V, U, I, P, Q, S, F, FP, ∑P, ∑Q, ∑S	V, U, I, P, Q, S, F, FP, ∑P, ∑Q, ∑S	V, U, I, P, Q, S, F, FP, ∑P, ∑Q, ∑S		
-	Recording via	a ULYSCOM Ethernet	Recording and Push FTP Ethernet / -M			
2	2	2	1	1		
MD100-M	1	1	1 (except Ethernet model)	1 (except Ethernet and ULYS FLEX models)		
00-M Modbus	Via ULY	/SCOM Modbus	ULYS TD80 Modbus / -M	ULYS TT Modbus / -M and ULYS FLEX		
-	Via ULY	SCOM Ethernet	ULYS TD80 Ethernet / -M	ULYS TT Ethernet / -M		
-	Via I II	VSCOM Mbus	LILYS TD80 Mbus / -M	LILYS TT Mbus / -M		

MD100-M	ULYS TDA80-M	ULYS TTA P01331015	ULYS TD80 Modbus : P01331034	ULYS TT Modbus : P01331035
1330760	P01331018		ULYS TD80-M Modbus : P01331036	ULYS TT-M Modbus : P01331037
100-M Modbus		ULYS TTA-M P01331019	ULYS TD80 M-bus : P01331042	ULYS TT M-bus : P01331043
1330761			ULYS TD80-M M-bus : P01331044	ULYS TT-M M-bus : P01331045
			ULYS TD80 Ethernet : P01331038	ULYS TT Ethernet : P01331039
			111 VS TD80-M Fthemet · P01331040	III YS TT-M Ethernet · P01331041





From electrical measurement to energy performance management

Drawing on long experience in energy supervision of applications, **Chauvin Arnoux Energy** develops **products and services** for easy **control** of all **energy consumption**, particularly in the context of an **ISO 50001** approach.

Current transformers

Economical, rugged, compact range for installation in any measurement environment.





Comprehensive monitoring of LV / HV power

MEMO/ ENERIUM power monitors

Measurement, recording and analysis of all the electrical quantities.



Remote retrieval and recording of energy data

ELOG data logger

Automatic remote retrieval, recording and storage of energy, climate and process data.

Local processing or processing via an energy information system, whatever the manufacturer.





Energy monitoring system

E.online[®] 3 software

Control, monitoring, management and supervision of multienergy, multi-site, multi-user consumption.

Generation of financial and energy reports in compliance with the ISO 50001 standard.

Chauvin Arnoux Energy APPLICATIONS TEAM

To guide you:

- in your choice of solutions for implementation
- by commissioning the installations
- by training the users on site or on our premises

Please don't hesitate to contact us

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