

MEMO & ULYS

Submeters



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

Integrated communication: Ethernet, M-Bus, Modbus

Metering, submetering, energy monitoring, rebilling

**Comprehensive
solution for
implementation of a
metering plan**

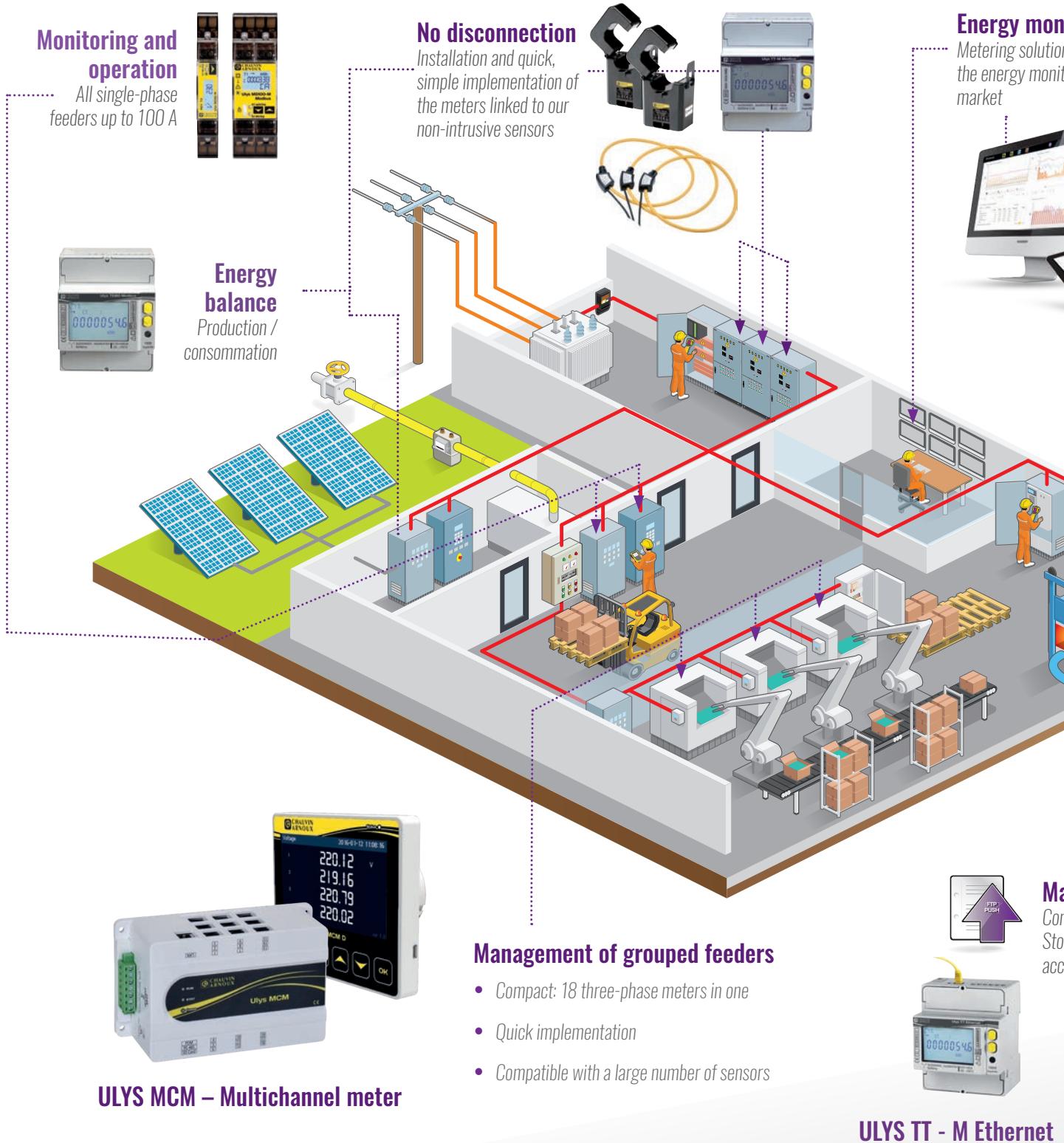
Measure up



Measuring to learn, allocate and

Energy efficiency is not just a social project, but a major economic issue in the context of **an action plan for control** sectors of the economy and all fields of activity, seen as a whole.

The new **regulations and certifications** for installations, implemented at national level to boost savings and reduce the



METER – MEASURE

COLLECT – HISTORIZIZE

ANALYZE – ACT

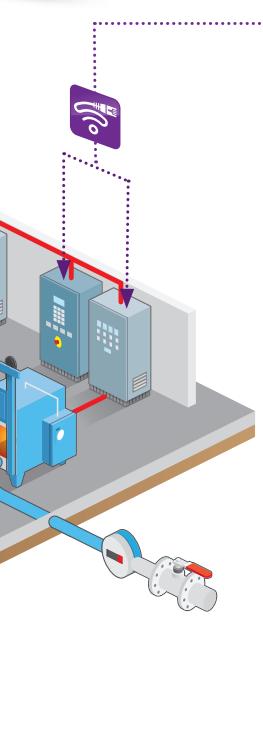
and monitor

and reduction of energy consumption. The incentive measures developed by all the policies worldwide target all the impact on the environment, help to meet the need for optimization of installations' energy performance.

Monitoring

compatible with all monitoring solutions on the

ISO 50001



Management of isolated feeders

connection to your existing Ethernet network.
range of the consumption data history
possible via its WEB pages / FTP push

Are my data reliable
and consistent?

Where should
I install my meters?

How do I process
my data?

MID METERS



Mandatory for rebilling of active energy on the basis of consumption readings by index difference.
Chauvin Arnoux Energy's active energy meters are MID-certified. Their names include the indication «-M», e.g. ULYS MD45-M



MEMO & ULYS M

... To implement yo

MEMO RANGE

METERING ESSENTIALS



Optimized inventory
A limited number of references suitable for the most common electrical feeders



Clear, simple display
Direct access to your consumption data



No prior parameter settings
Operational as soon as it is powered up



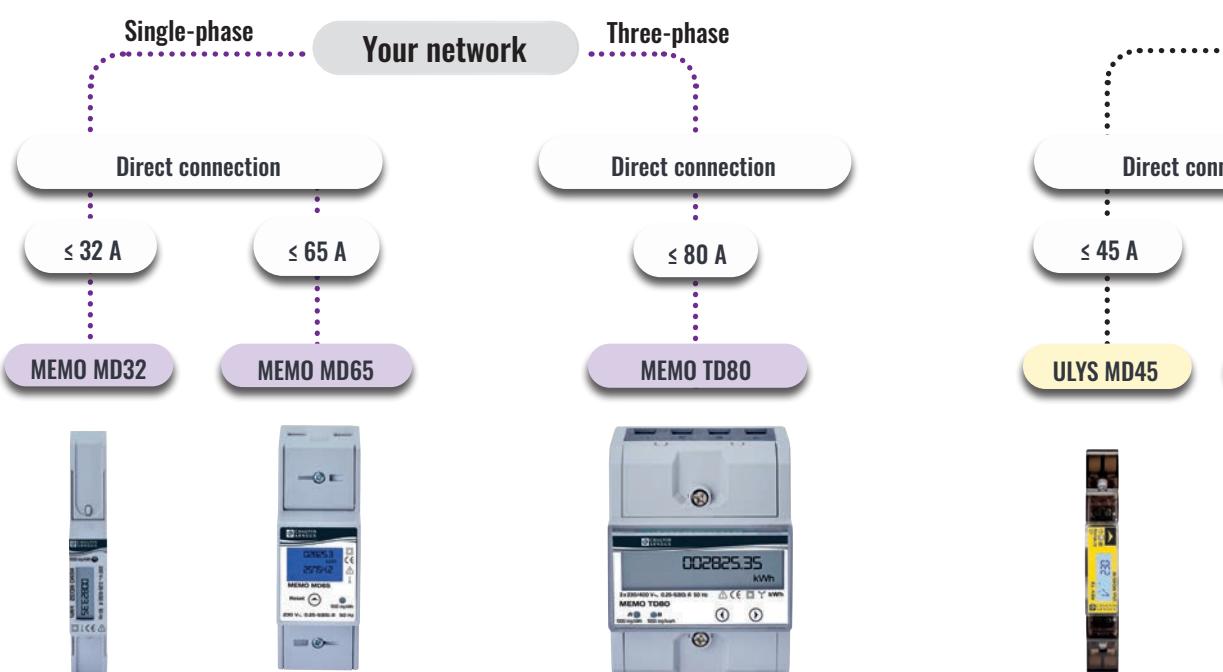
Interoperability
Integrated communication (Modbus over Ethernet) and compact case

IEC 62053-21

Monitoring and allocation of consumption

MID EN50470-3

Electrical energy rebilling on private network



	IEC	IEC	IEC	MID
NON-COMMUNICATING	MEMO MD32 P01330740	MEMO MD65 P01330741	MEMO TD80 P01330745	ULYS MD45-M P01330754
RS 485 MODBUS	-	-	-	ULYS MD45-M Modbus P01330756
Ethernet Modbus/TCP	-	-	-	-

MODULAR METERS

Your metering plan

ULYS RANGE

HIGH-PERFORMANCE CONNECTED METERING PLAN

ability
communication (Modbus,
pulse outputs in a
ring



Fair rebilling
MID, double tariff, partial
metering



Customizable multi-measurement
Configurable display. Local or remote
access, via web pages or push FTP



Easy implementation
Wide range of sensors for current
measurement

connection

≤ 100 A

ULYS MD100



ULYS TDA80-M



ULYS TD80-M



Single-phase

Measurement of a
single feeder

Your project

Measurement of
multiple feeders

Three-phase

Direct connection ≤ 80 A

Connection on CT

Connection on
Rogowski coils

Connection on
CT and Rogowski
coils

ULYS TTA-M



ULYS TT-M



ULYS FLEX



ULYS MCM



connection

≤ 100 A

ULYS MD100



ULYS TDA80-M



ULYS TD80-M



MID

MID

MID

MID

MID

IEC

IEC

ULYS MD100-M
P01330760

ULYS TDA80-M
P01331018

ULYS TTA-M
P01331019

IEC

IEC

IEC

ULYS MD100-M Modbus
P01330761

ULYS TD80-M
Modbus
P01331036

ULYS TT-M Modbus
P01331037

ULYS FLEX Modbus
P01331046 to
P01331049

ULYS MCM 9 feeders
P01331062

ULYS TD80-M
Ethernet
P01331040

ULYS TT-M Ethernet
P01331041

ULYS MCM 18 feeders
P01331064
See dedicated
documentation

Choose the right meter...

MEMO RANGE

		Single-phase		Three-phase		Single-phase	
		MEMO MD32	MEMO MD65	MEMO TD80		ULYS MD45-M	
Model							
	Rating	32 A	65 A	80 A		45 A	
	MID Certification	no	no	no		yes	
	Accuracy class	IEC Class 1	IEC Class 1	IEC Class 1		1	
Installation	Format	DIN modules	1	2	4	230 Vac	
	Power supply		Self-powered			Direct 45 A	
	Rated voltage		230 Vac	230 Vac	230/400 Vac	Bidirectional, kWh, total kVAh and partial kWh	
Inputs	Inputs	Direct/Sensors	Direct 32 A	Direct 65 A	Direct 80 A	V, I, P, Q, S, F, PF	
	Energy metering and management	Display and communication (if available)	Total kWh	Total and partial kWh	Total and partial kWh	1	
Multi-measurement	Multi-measurement	Display and communication (if available)	-	-	-	ULYS MD45-M	
Recordings / Push FTP		-	-	-	-	ULYS MD45-M Modbus	
Inputs / Outputs	Pulse output(s)	1	1	1		-	
	Tariff change input	-	-	-		ULYS MD45-M Modbus P01330754	
Communication	RS485 Modbus	-	-	-			
	Ethernet Modbus	-	-	-			

To order

MEMO MD32 P01330740

MEMO MD65 P01330741

MEMO TD80 P01330745

More than just an energy meter



ULYS TD80 / TT Ethernet

The simple, stand-alone solution for recording all the electrical activity on a feeder:

- Processing via integrated web pages
- Synchronized recordings of the electrical quantities
- Data transmission on ftp server

Quickly identify the MID meters marked "M"



ULYS RANGE

Phase	Three-phase			Multi-feeder
ULYS MD100-M	ULYS TDA80-M ULYS TD80-M	ULYS TTA-M ULYS TT-M	ULYS FLEX Modbus	ULYS MCM
				
100 A	80 A	Sur TC 1/5 A	0,3 to 20000 A	Jusqu'à 3000A
yes	yes	yes	no	no
MID Class B			IEC Class 1	IEC Class 0,5
2	4	4	4	8 (156x90x61)
Self-powered			85-265 Vac	100-240 Vac
230 Vac	230/400 Vac	230/400 Vac	10/17 to 285/495 Vac	25 to 400 Vac (P-P)
Direct 100 A	Direct 80 A	Isolated 1/5 A	On Rogowski coils	x9 or x18 feeders on CT or on Rogowski loops
Bidirectional, kWh, total kVArh and partial kWh	Bidirectional, kWh, kVArh, kVAh, total, partial and per phase	Bidirectional, kWh, kVArh, kVAh, total, partial and per phase	Bidirectional, kWh, kVArh, kVAh, total, partial and per phase	kWh, kVArh, kVAh per feeder
V, I, P, Q, S, F, PF	V, U, I, P, Q, S, F, PF, Σ P, Σ Q, Σ S	V, U, I, P, Q, S, F, PF, Σ P, Σ Q, Σ S	V, U, I, P, Q, S, F, PF, Σ P, Σ Q, Σ S	V, U, F, I, P, Q, S, PF, Σ P, Σ Q, Σ S per feeder
-	Ethernet model		-	-
2	2 on TDA80-M - 1 on TD80-M	2 on TTA-M - 1 on TT-M	1 (alarm or pulse)	1
ULYS MD100-M	1 (except Ethernet model)	1 (except Ethernet model)	no	no
ULYS MD100-M Modbus	ULYS TD80-M Modbus	ULYS TT-M Modbus	ULYS-FLEX Modbus	On all models
-	ULYS TD80-M Ethernet	ULYS TT-M Ethernet	-	
ULYS MD100-M P01330760	ULYS TDA80-M P01331018	ULYS TTA-M P01331019	ULYSFLEX Modbus Kit 30/3 P01331046	ULYS MCM 9 P01331062
ULYS MD100-M Modbus P01330761	ULYS TD80-M Modbus P01331036	ULYS TT-M Modbus P01331037	ULYSFLEX Modbus Kit 70/3 P01331047	ULYS MCM 18 P01331064
	ULYS TD80-M Ethernet P01331040	ULYS TT-M Ethernet P01331041	ULYSFLEX Modbus Kit 30/10 P01331048	For accessories (CTs, cables, screens), please contact us
			ULYSFLEX Modbus Kit 70/10 P01331049	

complete your ULYS TT models



Current transformer offer

TC CLIP 100 A / 1 A

TC CLIP 250 A / 1 A

TC CLIP 400 A / 1 A

TCR 100 A / 1 or 5 A

TCR 150 A / 1 or 5 A

TCR 200 A / 1 or 5 A



Strengths of ULYS MCM



Compact
18 meters in one



Small size
Thanks to its innovative design



Compatible
With a large number of sensors



Quick
to set up

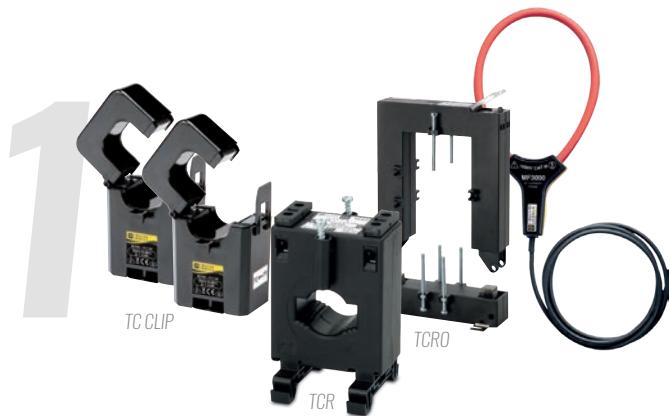
From electrical measurement to managing energy performance

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

Current transformers

Range of split-core or closed-core current sensors

- Current from 1 to 5,000 A
- CT technology (1 A, 5 A, 333 mV) or Rogowski coils or measuring shunts
- Wide offering for any type of conductor and any level of space constraints
- Easy to install while maintaining safety on the installation



Comprehensive monitoring of LV/HV power quality

Range of panel-mounted power monitors

- From 0.2s critical electrical monitoring to the collection of all-utilities metering data
- Analysis of the electrical feeder: alarms, recordings, harmonics, EN50160
- Compliance with the demanding electrical measurement standards: IEC61557-12, IEC62053-21/22



THE APPLICATIONS UNIT Chauvin Arnoux Energy

To accompany you:

- in the choice of the solutions to be implemented
- by commissioning the installations
- by training users on site or in our premises

Don't hesitate to contact us

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