

Ulys MCM

Multi-channel meter



The solution for centralising the measurement
of multiple electrical outputs

- **Compact:** 18 three-phase meters in 1
- **Quick** to implement
- **Compatible** with numerous sensors

Measure up



ULYS MCM enables you to reduce your equipment and installation costs for your instrumentation projects

The compact and quick-to-implement solution for centralising the measurement of numerous electrical outlets

OUR 5 STRENGTHS

1

18 meters in 1!

Based on a single voltage connection for all outputs, the Ulys MCM has a compact design.

- In three-phase use
▶ **up to 18 meters**
- In single-phase use
▶ **up to 54 meters**

2

Quick and reliable to implement

The entire Ulys MCM current measurement connection chain is designed for easy implementation. The current sensors are connected via a quick RJ12 connector, which can be connected in one click using a cable prepared prior to installation, thus limiting the risk of wiring errors. The current sensor technology eliminates electrical risk: there is no need to install a short-circuit device to secure the installation.

3

Compatible with a wide range of sensors

The Ulys MCM is compatible with a wide range of sensors:

- Flexible Rogowski technology sensors: our MiniFlex sensors are ideal for connection to high currents and/or multiple conductors (particularly general supply lines in installations) thanks to their ease of installation
- Current transformers with clips, compact enough to fit into tight spaces and for low-current outputs

Flexible, the Ulys MCM can accept three-phase outputs incorporating both types of sensors, namely our MiniFlex and TC CLIP.

4

Complete and detailed information

The Ulys MCM measures all energies (kWh, kVAh, etc.) and electrical quantities (V, U, I, F, PF, imbalance, etc.) for each instrumented electrical outlet. A supplied probe measures the temperature. The product can be equipped with a remote display, connected A supplied probe allows temperature to be measured. The product can be equipped with a remote screen, connected via a simple network cable to the Ulys MCM, to display all the information on the front of the cabinet.

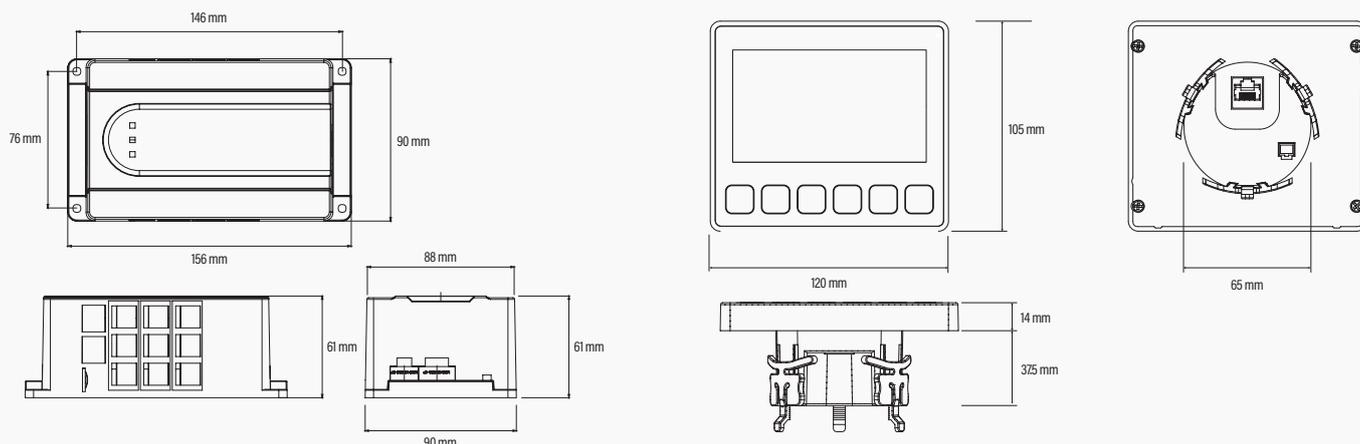
5

Universal communication

The Ulys MCM connects to any Ethernet or RS485 network on the same model, so that it can be queried by a remote real-time controller.

The large capacity of the Ulys MCM will enable it to evolve to meet new requirements.

DIMENSIONS

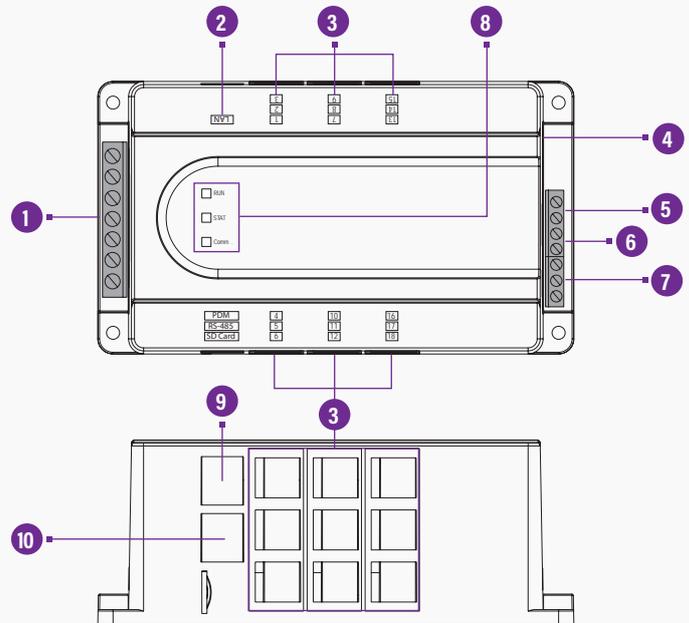


All technical information to learn more about the ULYS MCM

GENERAL DESCRIPTION

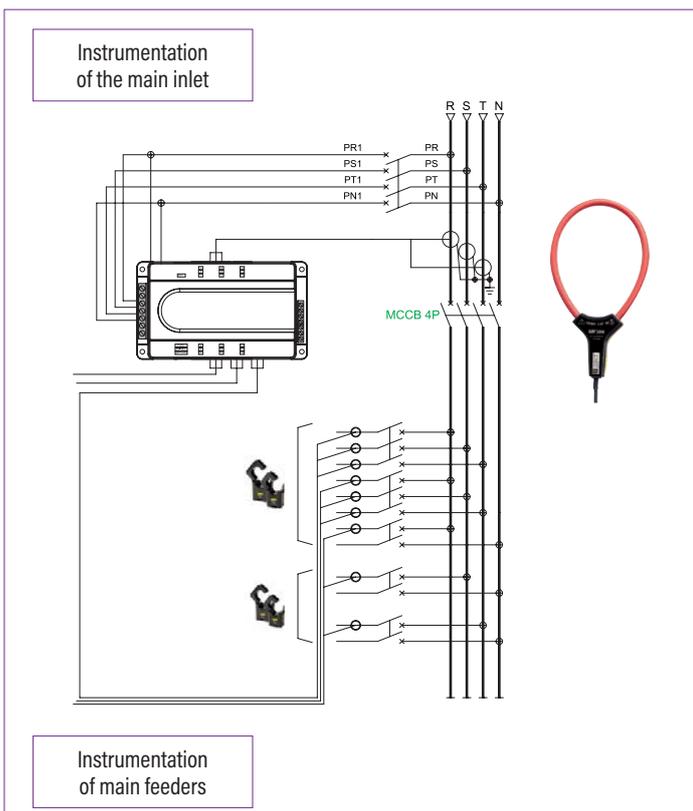
Description of the ULYS MCM

No.	Designation	Description
1	Input voltage*	Input voltage terminal for measurements
2	Ethernet port	Communication with master (Modbus slave) Protocol: Modbus TCP/IP Speed: 10/100 Mbit/s
3	TC port 1 ~ 18	RJ12 connectors for connection to current sensor
4	Temp. sensor	CTN temperature sensor Measures temperature by CTN at the port.
5	Digital output*	Digital output terminal Nominal specifications: 250 V ~ /5 A, 30 VDC/5A resistive
6	Digital input*	Borne d'entrée TOR Digital input terminal Nominal specifications: 220 V latching input voltage ~ required
7	Auxiliary power supply*	Auxiliary power supply for the ULYS MCM
8	Status LED	
9	PDM port	RS232 port for connecting the computer or remote display ULYS MCM D
10	RS485 port	RS485 port for connecting the computer or an external PLC



*The cross-section of the connecting cables must be between 0.5 mm² and 2.5 mm² (minimum: AWG 26, maximum: AWG 12). The tightening torque for the field wiring is 0.4 Nm.

Connection principle



Designation	Specifications	
Electrical system	1P2F, 3P3F, 3P4F	
Nominal spec. Inputs	Voltage (Umin - Umax)	43-690 V ~ between phases
	Voltage (Vmin - Vmax)	25-400 V ~ between phases and neutral
	Measurement category	Cat III
	Frequency	45-65 Hz
	Current	0-333 mV (max 0.5 V p-p) Impedance: 20 kΩ
	Digital input	1 point, 230 V ~, external power supply
	CTN temperature	25° C, 10 kΩ, (β(25/85) = 3,970° k)
Auxiliary power supply	Voltage	100-240 V ~
	Frequency	50-60 Hz
	Max voltage (L-N)	Short term: 1,440 V ~ - Long term: 490 V ~
	Power consumption	0.09-0.09 A
Overvoltage category	Cat II	
Communication	Modbus RS485 Modbus TCP RS232	
Output contact	1 NO (normally open) SPST (single pole, single throw)	
Pollution degree	2	
Altitude	≤ 2,000 m	
Operating temperature	-10°C to +55°C	
Storage temperature	-25°C to +70°C	
Maximum humidity	5-80% RH without condensatio	
Protection rating	IP20 IP40: ULYS MCM D front panel	
For indoor use only		

To answer your questions (and choose your references)

HOW MANY THREE-PHASE OUTPUTS DO YOU REQUIRE?

Up to 6 electric starts

Ulys MCM 6

P013310615

Between 7 and 9 electric starts

Ulys MCM 9

P01331062

Between 10 and 18 electric starts

Ulys MCM 18

P01331064

WHICH SENSORS WOULD YOU LIKE?

(may vary for each departure, in sets of 3)

		Ratio	Diameter
P01379616	PACK 3 TCC V 105	5A / 333mV	10mm
P01379626	PACK 3 TCC V 1050	50A/333mV	10mm
P01379618	PACK 3 TCC V 161	100A / 333mV	16mm
P01379620	PACK 3 TCC V 242	250A / 333mV	24mm
P01379622	PACK 3 TCC V 364	400A / 333mV	36mm
P01379624	PACK 3 TCC V 366	600A / 333mV	36mm
P01379631	PACK 3 MF300	600A (1A / 39,1µV)	70mm
P01379633	PACK 3 MF3000	3000A 1A / 39,1µV)	200mm

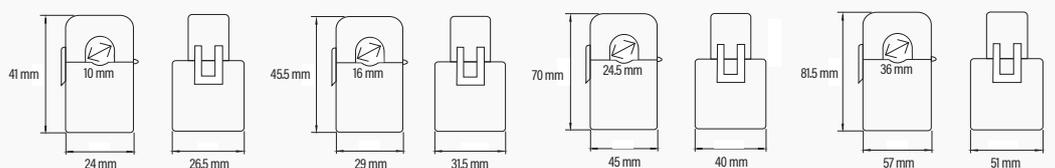
Our MiniFlex



MF 300

MF 3000

Our current transformers



TCC V 105/1050

TCC V 161

TCC V 242

TCC V 364 et TCC V 366

WHAT IS THE DISTANCE BETWEEN YOUR ULYS MCM AND YOUR SENSORS?

(may vary for each departure)

P01379641	RJ12M-RJ12M M	≤ à 3 mètres
P01379642	RJ12M-RJ12M L	≤ à 9 mètres



WHAT ACCESSORIES CAN HELP WITH PRODUCT INTEGRATION?

P01331065	ULYS MCM D	Screen
P01379640	RJ45M-RJ45M M	Connection cable*
P01331068	DIN rail mounting accessory	

*Cable required to connect the screen



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