3-phase energy meter, 100A, RS-485 port, MID, 4 modules, installation rail: DIN TH-35mm, PV-Ready

Marka: **Orno** | Symbol: **OR-WE-529** | Ean: **5908254846557**

PRODUCT DESCRIPTION

The three-phase energy meter with a maximum current of 100A is a modern measuring device designed for precise monitoring of electricity consumption in three-phase installations. The meter may be used for commercial, industrial and domestic applications where accurate and reliable readings are required.

The unit operates with a rated voltage of 3x230/400V~ and a frequency of 50/60Hz, enabling direct energy measurement without the need to use current transformers. The device records active, reactive, consumed

and released energy. This allows comprehensive monitoring of energy flows in both directions. A minimum measurement current of 0.25A ensures high sensitivity of the device even at low load.

The digital LCD display (6+2 digits) with backlighting allows comfortable readings even in low light. The unit also has a sub-meter reset function, particularly useful in situations requiring periodic resetting of readings.

Designed for mounting on a TH-35mm DIN rail, it ensures easy installation in standard switchgears. The housing measures 72x72x90 mm and fits into a standard 3 DIN modules. The maximum cross-section of the connection wires is 35 mm². The IP51 rate allows installation in any environment - dry and exposed to water.

The unit is equipped with an RS-485 port with Modbus protocol and S0 type pulse output for easy integration with monitoring and automation systems. In addition, the meter supports the IR protocol in accordance with EN 62056-21.

The meter has been designed in accordance with standards: IEC 62052-11:2020, IEC 62053-21:2020, IEC 62053-23:2020, EN 50470-1:2006 and EN 50470-3:2007. Compliance with MID 2014/32/EU allows the meter to be used in commercial spaces where certified equipment is required.

TECHNICAL DATA

General information:

Type of meter:	Elektroniczny
Nominal current (In) [A]:	10
Max. current (Imax) [A]:	100
Min. Current [A]:	0.25
Start current (Ist) [A]:	0.004
Nominal voltage (Un) N-L [V]:	230
Nominal voltage (Un) L-L [V]:	400
Frequency [Hz]:	50
Pulse frequency [imp/kWh]:	1000
Accuracy class [W]:	<12VA <1W
Pole type:	Trójfazowy
Model:	Pomiar bezpośredni
Measurement accuracy class:	1

Energy type:	Moc czynna i bierna
Active power:	Tak
Reactive power:	Tak
Forwarded power:	Tak
Reversed power:	Tak
Suitable for:	Pobór/zwrot
Resetting sub-meter possibility:	Tak
Memory support:	EEPROM
Calibrated:	Tak
Approval:	MID (Measuring Instruments Directive)
Pulse output:	Optyczny
Pulse type:	S0
Pulse rate [Imp/kWh]:	1000
Pulse output voltage [V DC]:	12-27
Pulse output current [mA]:	≤27
Multi-tariff:	Nie
Type of indication:	Cyfrowy
Backlight:	Tak
IR port:	Tak
Mounting method:	Adapter szyny DIN
Width in number of modular spacings:	4,3
Max. Cross-section of cables [mm]:	35
Width [mm]:	72
Depth [mm]:	72
Height [mm]:	90
Temperature Range [°C]:	-40 - +70
Max. Humidity:	≤95%
Type of protocol:	IR , RS-485
Type of interface:	Modbus, EN 62056-21

Degree of protection (IP):	IP51
Compliance with:	MID 2014/32/EU
Compliance with standards:	IEC 62052-11:2020 IEC 62053-21:2020 IEC 62053-23:2020 EN 50470-1:2006 EN 50470-3:2006
Display [kWh]:	LCD 6+2 = 123456,12
Display - number of digits:	6+2
Moment dokręcenia złącza siłowego [Nm]:	2.5
Moment dokręcenia złącza komunikacyjnego [Nm]:	0.4