3-phase energy meter with MID, 80A, 4,3 modules, DIN TH-35mm

Marka: **Orno** | Symbol: **OR-WE-531** | Ean: **5908254847844**

PRODUCT DESCRIPTION

The 3-phase energy meter with a maximum current of 80A is a modern measuring device designed for precise monitoring of electricity consumption in three-phase installations. The meter can be used for commercial, industrial and domestic applications where accurate and reliable readings are required.

The meter operates in systems with a rated voltage of 3x230V or 400V AC and a frequency of 50Hz, enabling direct energy measurement without the need for current transformers. The device records active, consumed

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and emitted energy. This allows for comprehensive monitoring of energy flow in both directions. A minimum measurement current of 0.25A ensures high sensitivity of the device even at low load, and a starting current of 0.02A allows even small current draws to be recorded.

The digital LCD display (6+2 digits) with a backlit allows comfortable readings even in low light. The unit also has an active energy 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 switchboards. The 76x100x65 mm enclosure accommodates 4.3 DIN modules as standard. The maximum cross-section of the connection cables is 35 mm².

The meter supports the IR protocol in accordance with EN 62056-21.

It is possible to set 27 different parameters to be displayed on the LCD screen. This requires the use of a USB optical head (OR-WE-518) to enable communication between a PC (Windows) and electricity meters equipped with IR optical ports. A simple application allows the data meter to be downloaded and programmed (including setting tariffs). Baud rate: 300, 600, 1200, 2400, 4800, 9600, 19200 bits/sec. Operates in accordance with IEC 62056-21 (IEC1107).

The meter has been designed in accordance with standards: EN 50470-3:2022, EN IEC 62053-21:2021, IEC 62052-11:2020, IEC 62052-31:2015. Compliance with MID 2014/32/EU allows the meter to be used in commercial spaces where certified equipment used for billing is required.

TECHNICAL DATA

General information:

Type of meter:	Elektroniczny
Nominal current (In) [A]:	5
Max. current (Imax) [A]:	80
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

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Accuracy class [W]:	0.55
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:	bateria Li-Ion
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 [mm²]:	35
Width [mm]:	76
Depth [mm]:	65
Height [mm]:	100

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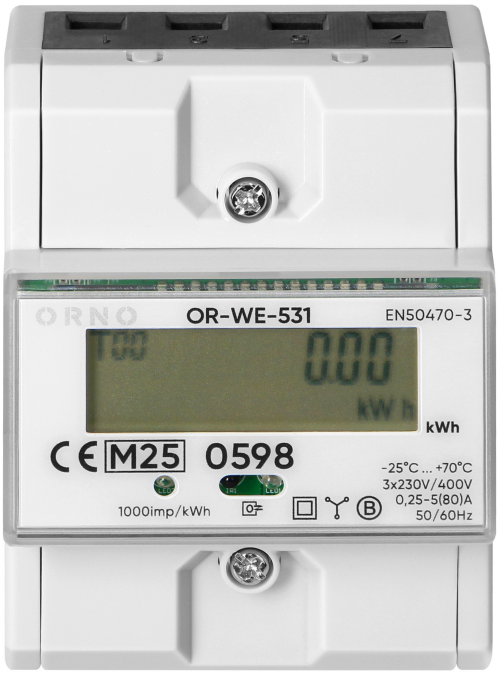
Temperature Range [°C]:	-25 - +55
Max. Humidity:	≤95%
Type of protocol:	IR
Type of interface:	EN 62056-21
Degree of protection (IP):	IP51
Compliance with:	MID 2014/32/EU
Compliance with standards:	EN 50470-3:2022 EN IEC 62053-21:2021 IEC 62052-11:2020 IEC 62052-31:2015
Display [kWh]:	LCD 6+2 = 123456,12
Display - number of digits:	6+2
Moment dokręcenia złącza siłowego [Nm]:	2.5
Moment dokręcenia złącza komunikacyjnego [Nm]:	0.4



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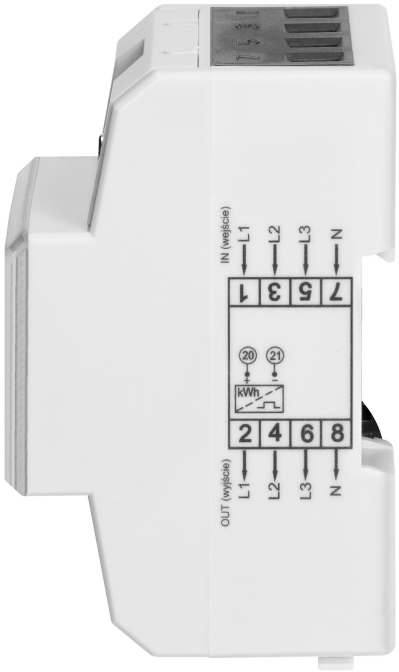

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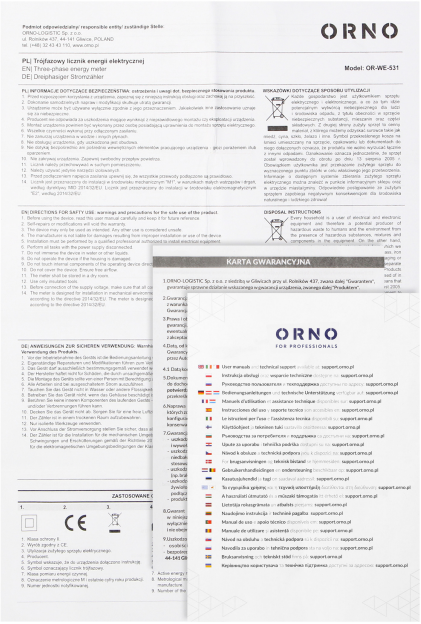

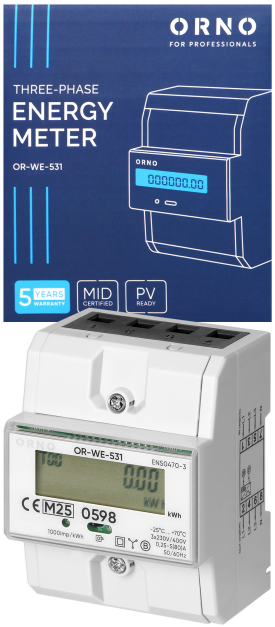

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