



F&F Filipowski sp. j.
Konstantynowska 79/81, 95-200 Pabianice, POLAND
phone/fax (+48 42) 215 23 83 / (+48 42) 227 09 71
www.fif.com.pl; e-mail: biuro@fif.com.pl

WZE-3

Electric energy meter,
3-phase



5119024311670058

Do not dispose of this device in the trash along with other waste!

According to the Law on Waste, electro coming from households free of charge and can give any amount to up to that end point of collection, as well as to store the occasion of the purchase of new equipment (in accordance with the principle of old-for-new, regardless of brand). Electro thrown in the trash or abandoned in nature, pose a threat to the environment and human health.



Compliance

MID Directive

2014/32/EU

Certificate number

0120/SGS/0169

Purpose

The WZE-3 is a static (electronic) calibrated electricity meter of three-phase alternating current in a direct system.

Functioning

A special electronic system under the influence of current flow and applied voltage in each phase, generates pulses in proportion to the electricity consumed in this phase. Phase energy consumption is indicated by flashing the corresponding LED (A, B, C). The sum of the pulses of the three phases is indicated by a flashing LED shall be converted to energy, taken throughout the three-phase system, and its value is determined by the segment LCD display.

Decimal represent the hundredths (0.01 kWh = 10 Wh).

Measured value

Active energy consumed

AE+

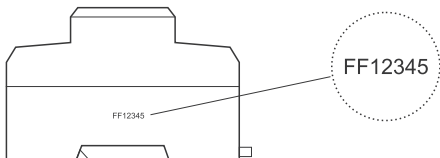
[kWh]

Pulse output

The indicator has a pulse output. This allows you to connect a pulse meter-reading pulses generated by the counter. For proper operation of the indicator is not required to connect additional devices.

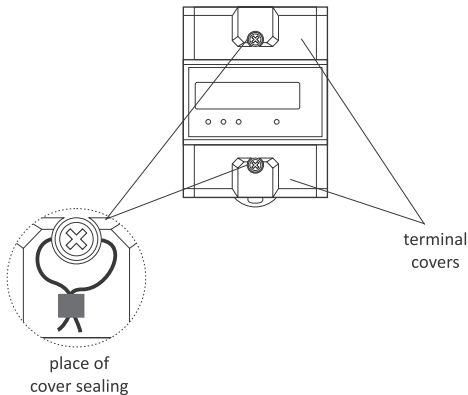
Meter number

The meter is marked with individual serial number allowing its unambiguous identification. The marking is laser engraved and cannot be removed).



Sealing

The meter has sealable input and output terminal covers to prevent any attempts to bypass the meter.



Mounting

1. Disconnect the power supply.
2. The indicator mounted on a rail in the distribution box.
3. Using a screwdriver, remove the screws and remove the front shield meter terminals.
4. Connect power to terminals 1 (L1 IN), 3 (L2 IN), 5 (L3 IN).
5. Connect the measured circuit or a single receiver to the terminals in accordance with the markings to the terminals 2 (L1 OUT), 4 (L2 OUT), 6 (L3 OUT).
6. N-wire connect to terminal 7.
7. Additional pulse receiver connected to terminals 20(+) – 21(–).
The terminals are located under the top shell meter terminals.



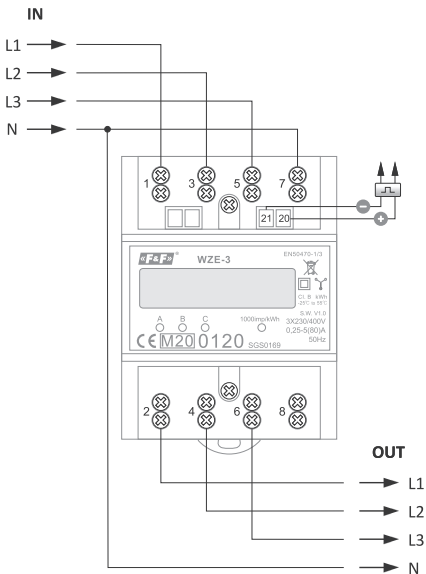
Additional pulse receiver is not required.

8. Put the meter terminals covers.

Description of terminals

| | |
|---------|-----------------------------|
| 1, 3, 5 | – L1, L2, L3 (power supply) |
| 2, 4, 6 | – L1, L2, L3 (receive) |
| 7 | – N-wire neutral |
| 20 | – pulse output (+) |
| 21 | – pulse output (–) |

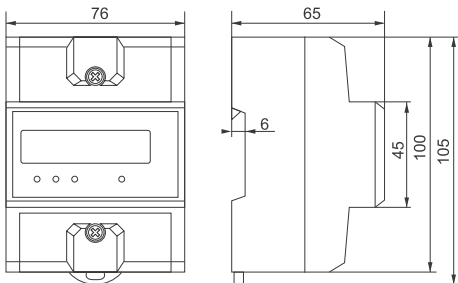
Wiring diagram



Technical data

| | |
|---|------------------------------------|
| installation | 4-wire |
| rated voltage | 3×230/400 V |
| minimum measured current | 0.04 A |
| base current | 0.25÷5 A |
| maximum current | 80 A |
| voltage measuring range | 160÷265 V |
| measurement accuracy (EN50470-1/3) | class B |
| rated frequency | 50 Hz |
| insulation protection class | II |
| housing | PC+ABS material |
| own power consumption | <10 VA; <2 W |
| indication range | 0÷999999.99 kWh |
| constant | 1000 pulses/kWh |
| current consumption signalling A, B, C phases | 3× red LED |
| read-out signalling | red LED |
| pulse output | |
| type | open collector |
| maximum voltage | 27 V DC |
| maximum current | 27 mA |
| pulse constant | 1000 pulses/kWh |
| pulse time | 35 ms |
| working temperature | -25÷55°C |
| terminal | 16 mm ² screw terminals |
| dimensions | 4.5 module (75 mm) |
| mounting | on TH-35 rail |
| ingress protection | IP20 |

Dimensions



Warranty

F&F products are covered by a 24-month warranty from the date of purchase. The warranty is only valid with proof of purchase. Contact your dealer or contact us directly.

CE declaration

F&F Filipowski sp. j. declares that the device is in conformity with the essential requirements of The Low Voltage Directive (LVD) 2014/35/EU and the Electromagnetic Compatibility (EMC) Directive 2014/30/UE.

The CE and MID Declaration of Conformity, along with the references to the standards in relation to which conformity is declared, can be found www.fif.com.pl on the product subpage.

General work safety conditions

- » Please read the instructions carefully before installation.
- » The device should be installed and operated by qualified personnel who are familiar with its design, operation, and associated risks.
- » Do not install a meter that is damaged or incomplete.
- » The user is responsible for proper grounding of the system, proper selection, installation, and efficiency of other devices connected to the meter, including safety devices such as over-current, residual current and overvoltage circuit breakers.
- » Before connecting the power supply, make sure that all cables are connected correctly.
- » It is essential to observe the operating conditions of the meter (supply voltage, humidity, temperature).
- » To avoid electric shock or damage to the meter, turn off the power supply whenever the connection is changed.
- » Do not make any changes to the unit yourself. Doing so can result in damage to or improper operation of the device, which in turn can pose a threat to people operating it. In such cases, the manufacturer is not responsible for the resulting events and may refuse the provided warranty in the event of a complaint.