Three-phase static electricity meters **AMT B3x-OA4SETx** are determined for direct measurement of active energy with measured consumption displaying on LCD. They are manufactured in single-rate and double-rate versions with external switching of rates.

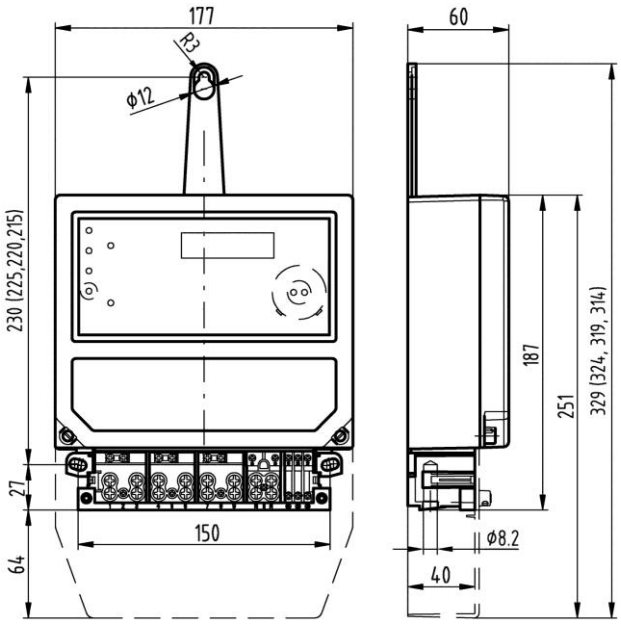
The measured values are stored into special registers according to the OBIS codes. They are displayed on LCD in cyclic or step mode. The data are stored in non-volatile memory during power outage. The performance of internal circuits is monitored during the operation of a meter and the statuses are stored in the particular registers. The content of registers can be displayed. The test pulses indicated by red LED are proportional to the consumed energy. The meters can be produced in version with measurement in summary mode (unidirectional register) or with measurement in separation mode (consumption – supply).



Highlights

- Passive transmitting pulse SO output for remote transmission;
- Energy, voltage and current measurement;
- Event records (about influence of magnetic field, missing voltage, covers removal,...) – number of events;
- Welded case on a customer requirement;
- Complies with IEC/EN 62052-11, IEC/EN 62053-21; EN 50470-1, EN 50470-3 and with requirements of European Parliament and EC Directive 2014/32/EU (MID);
- It is supplied initially verificated for billing measurement.

Dimensional drawing



Technical data

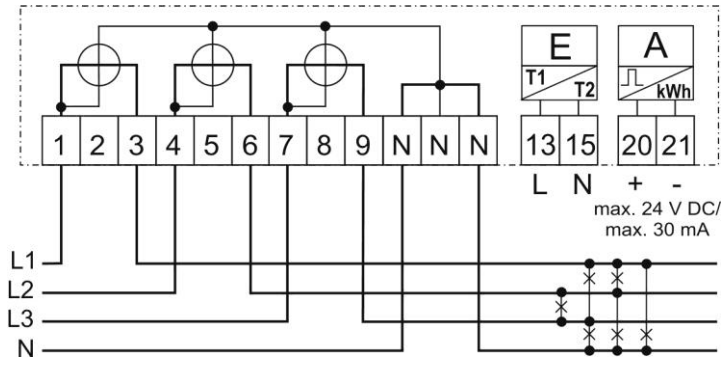
Accuracy class	A, B
Reference voltage [V]	3x220/380, 3x230/400, 3x240/415 (-30,+15 %) 220, 230, 240
Reference frequency [Hz]	50
Reference current I_{ref} [A] (I_{ref} = 10 I_{tr})	5, 10
Transient current I_{tr} [A]	0,5 ; 1
Starting current I_{st} [mA] ($\leq 0,04\ I_{tr}$)	≤ 20
Minimal current I_{min} [A]	0.25, 0.50
Maximal current I_{max} [A]	40, 50, 60, 80, 100
Overload capacity [%]	**4** - 400, **5** – 500, **6** - 600, **8** – 800, **A** – 1000, **B** - 1200, **D** – 1600, **E** – 2000

Power consumption - *voltage circuit* **[VA/W]**	≤ 7,7 /1,2
Power consumption - *current circuit* **[VA]**	≤ 0,006
Operating temperature	- 40 °C up to + 70 °C
Mean temperature coefficient [%/K]	≤ 0,04
Impulse constatnt *for test output* k_{TO} **[imp/kWh]**	1000
Transistor output SO	24 V / 30 mA
Terminals *current ; voltage ; auxiliary* **[mm]**	ø 8,2 ; ø 3 ; ø 3
Degree of protection	IP54 (for vertical mounting on a plain and smooth panel)
Meter dimensions *w x h/h´ x d* **[mm]**	177 x 187/251 x 60
Fixing holes distance *w x h* **[mm]**	150 x 215-230
Weight [kg]	≤ 0,85

Marking of meters

AMT B3x_5-OA4SETx_{12}	
AMT B3	*type designation*
x_5	*overload capacity:* **4** – 400 %, **5** – 500 %, **6** – 600 %, **8** – 800 %, **A** – 1000 %, **B** – 1200 %, **D** – 1600 %, **E** – 2000 %
O	*basic version*: multifunctional electricity meter with LCD without RTC
A	*measured energy:* active
4	*network connection:* 3-phase 4-wire
S	*current converter:* shunt
E	*case version*: up to 100 A
T	*type of applied processor*
x_{12}	*special modules:* **E** – external control of the second tariff

Connection diagram – example



Ordering data

- Type and version marking;
- Reference voltage and current range I_{ref}/I_n, I_{max};
- Reference frequency;
- Number of units;
- Required delivery terms.