Three-phase static electricity meters **AMT B1x-SAxTE** are determined for single-rate active energy measurement in direct and indirect connection, displaying results on mechanical register with stepping motor. In the case of CT (current transformer) operated meters (x/5A) it is necessary value of register to multiply by the current transformer ratio.

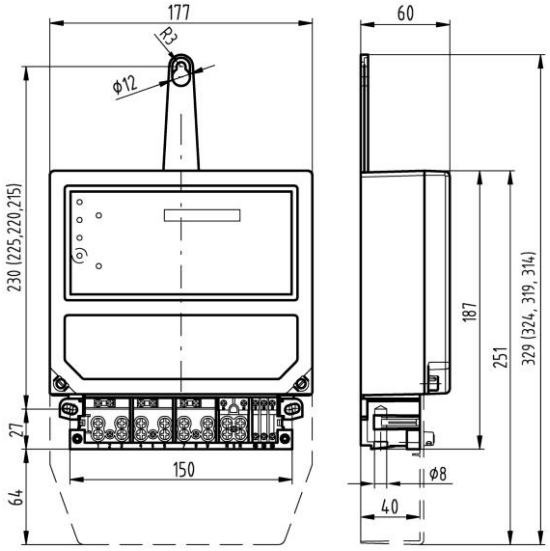
The test pulses indicated by red LED are proportional to the consumed energy. Measurement „using an unidirectional mechanical register“ provides positive energy measurement even if the reverse energy flow.



Highlights

- Passive transmitting pulse SO output for remote transmission;
- Indication of voltage presence and reverse energy flow;
- Resistant to external influence;
- Welded case on a customer requirement;
- Compliance 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



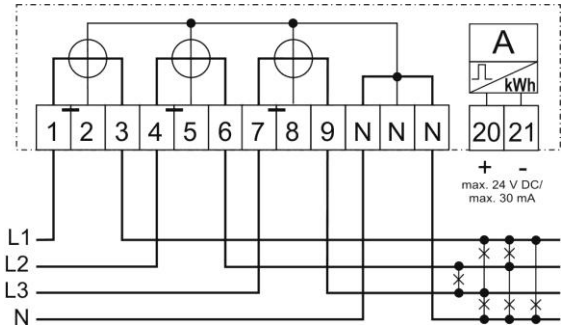
Technical data

Accuracy class	A or B (MID), 2 or 1 (EN 62053-21)
Reference voltage [V]	3 x 220/380, 3 x 230/400, 3 x 240/415,3 x 120/208, (-30,+15%)
Nominal frequency [Hz]	50 or 60
Reference current I_{ref} [A] *direct connection*	5 and 10
Nominal current I_n [A] *indirect connection*	5
Transient current I_{tr} [A] *direct/indirect connection*	0,5 and 1 / 0,25
Starting current I_{st} [A] *direct/indirect connection*	≤ 0,02 and 0,04 / 0,01
Minimal current I_{min} [A] *direct/indirect connection*	0,25 and 0,5 / 0,05
Maximal current I_{max} [A] *direct/indirect connection*	100 / 10
Power consumption - *voltage circuit* **[VA/W]**	≤ 7,5 /0,4
Power consumption - *current circuit* **[VA]**	≤ 0,1
Impulse constant *for test output k_{TO}* **[imp/kWh]**	1600
Impulse constant *for impulse output k_{SO}* **[imp/kWh]**	1600
Transistor output SO	24 V / 30 mA
Operating temperature	- 40 °C up to + 70 °C
Mean temperature coefficient [%/K]	≤ 0,02
Terminals *current; voltage ; auxiliary* **[mm]**	ø 8 ; ø 3 ; ø 3
Degree of protection	IP54
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]	≤ 1,3

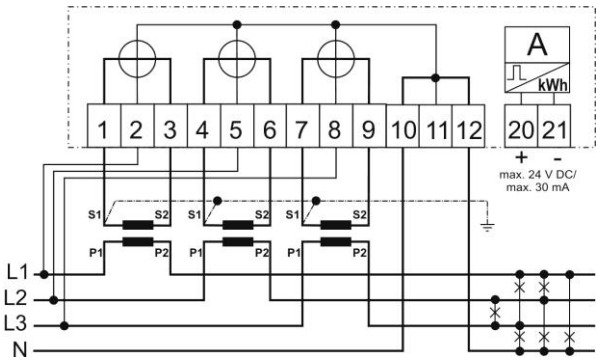
Marking of meters

AMT B1x_5-SAx_8TE		
AMT B1	....	*type designation*
x_5	.....	*overload capacity:* **1** - 120 %, **2** - 150 %, **3** - 200 %, **4** - 400 %, **5** - 500 %, **6** - 600 %, **8** - 800%, **A** – 1000 %, **B** - 1200 %, **D** - 1600 %, **E** - 2000 %
S	.....	*basic version:* electricity meter with mechanical register
A	.....	*measured energy:* active
x_8	.....	*network connection:* **2** – two-phases 3-wires, **4** – three-phases 4-wires
T	.....	*current converter:* transformer
E	.....	*terminal block version:* up to 100 A

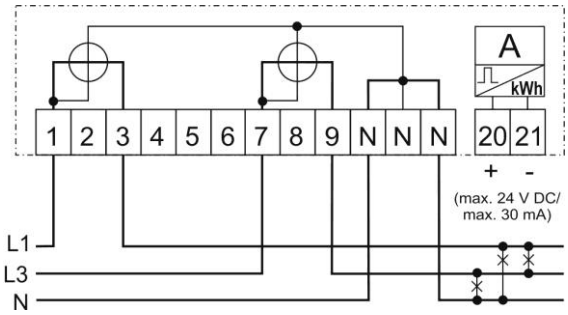
Connection diagrams - examples



AMT B1x-SA4TE
(direct connection)



AMT B1x-SA4TE
(indirect connection)



AMT B1x-SA2TE
(direct connection in two-phase 3-wire network)

Ordering data

- Type and version marking;
- Reference voltage and current range Iref/In, Imax;
- Reference frequency;
- Number of units;
- Required delivery terms.