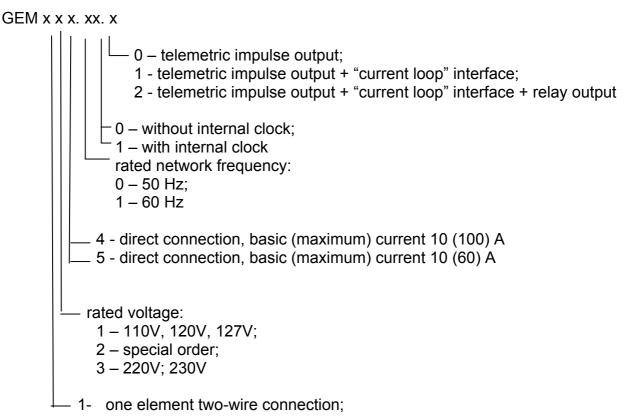
The electronic multi-tariff meter of direct connection is designated for accounting active electric energy in single-phase alternate current 50 Hz or 60 Hz frequency networks in one o multi-tariff regimes. It may also be used in automated electric energy control and accounting systems for transmission of measured and calculated data into dispatching units.

## **Technical characteristics**

Class			
Class	1.0 or 2.0 (IEC 1036-96)		
Rated voltage	1.0 or 2.0 (IEC 1036-96)		
Basic (maximum) current Ib	10(60)A – cl.1.0; 10(100)A – cl.2.0		
Rated frequency	50 or 60 Hz		
Starting	0,004I <sub>b</sub>		
Range of operational temperatures	from –20 °C to +55 °C		
Power consumption in voltage circuit	< 0,75W; < 1VA		
Power consumption in current circuit	< 0,05VA		
Meter's constant	2000		
Number of tariffs	1 or 4		
Information communication speed by protocol IEC 1107			
- via optical interface;	300 2400 bauds		
- via 'current loop' interface	300 2400 bauds		
Outputs:			
- telemetric	telemetric impulses		
- relay	synchronized with chosen tariff		
	validity time or programmed for		
	day and night cycle		
Additional functions:			
- registration of network	up to 9999 cases		
disconnection's	number of influences and common		
- registration of strong magnetic field	duration		
influences	up to 9999 cases		
- diagnostics of internal malfunctioning			
Data retention time after disconnection of	10 years when T<25 <sup>0</sup> C; 2 years		
power supply	when t = $60  {}^{\circ}\text{C}$		
Dimensions, mm <sup>3</sup>	217x130x53		
Weight, kg	0,95		

## GEM

## Modifications' coding:



Coding GEM	Rated voltage, V	Basic/ Maximum current, A	Accuracy class	Number of tariffs	Starting, %I <sub>b</sub>	Auxiliary outputs*
135.01.0	230	10/60	1.0	1	0.4	AA
134.01.0	230	10/100	2.0	1	0.5	AA
134.01.1	230	10/100	2.0	1	0.5	CS; AA
135.01.2	230	10/60	1.0	2	0.4	CS;MKA;AA
115.01.2	127	10/60	1.0	2	0.4	CSMKA;AA

Characteristics of the main GEM meter's modifications are given in the following table:

- CS current loop interface;
- MKA relay output;
- AA telemetric output

Requirements for auxiliary outputs and additional meter's functions are an object of agreement with a client upon making up supply contracts.