



OrionM2M

LoRaWAN Electricity Meter

PULSAR 1T

FEATURES:



Metering of active and reactive electrical energy



Magnetic field detection



Up to 4 tariffs



Relay with lock-out option



LCD display



Two channels of current measurement



High accuracy class



LoRaWAN v1.0.3 Class A or C



Non-volatile memory stores data



EasyTool technology allows configuring the radio modem remotely



APPLICATIONS:

Utility – remote monitoring of resources | Smart building and Industrial Control | Smart City and Agriculture | Other wireless sensing applications

General

Set operating voltage range, V	0.9 ... 1.1Unom
Advanced operating voltage range, V	0.8 ... 1.15Unom
Extended operating voltage rang, V	0.0 ... 1.2Unom
Mains voltage measurement range, V	0.8 ... 1.25Unom
Active/total power at nom. voltage, W/VA	2/10
Total power, each current circuit, max, VA	0.3
Quantity of tariffs	4
Support protocols	PULSAR/SPODES
Average life, year	32
Guaranty, year	7
MTBF, not less, hour	318 160
Working temperature, °C	-40 ... +60
Weight, kg	≤ 0.5
Dimensions, mm	65 x 171 x 114

Metrological data

Metrological class of active power	1/2
Metrological class of reactive power	1; 2
Nominal voltage, V	230
Basic/Max current, A	5/60
Nominal frequency, Hz	50±7,5
Meter constant, imp/kWh	1000; 500

Radio

Communication protocol	LoRaWAN v1.0.3
Device class	A or C
Bands	EU863-870 IN865-867 RU864-870 KZ865-868 US902-928 AU915-928 AS923 KR920-923
Activation in LoRaWAN	OTAA
LoRa Power Output	up to 14 dBm (25 mW)
Receiver sensitivity, dBm	-137
Signal lead	Internal antenna
Data transfer rate, kbps	0.3 ... 40
Firmware update	EasyTool/OTA

Order Info

SKU	Description
ПУЛЬСАР 1ТтщОИ-5/100-57-С/2-1/2Д-4 /A-F	Single-phase electric energy meter ПУЛЬСАР 1Т Transformer+Shunt; Relay 80A; optical/RS-485
A: antenna · -: internal 868 MHz · 9: internal 915 MHz · E: external SMA-female	F: the default frequency plan · EU: EU863-870 · IN: IN865-867 · RU: RU864-870 · KZ: KZ865-868 · US: US902-928 · AU: AU915-928 · AS: AS923 · KR: KR920-923