



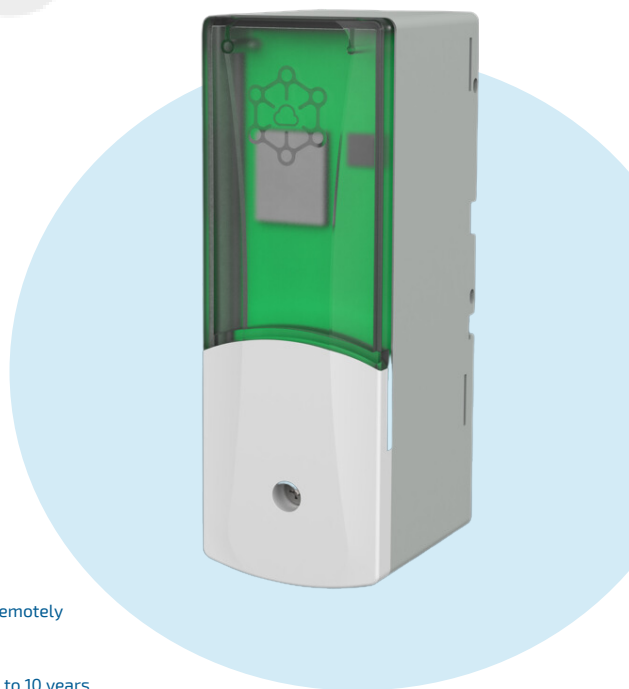
OrionM2M

GSM Multifunction Device

ORIONMETER GSM

FEATURES:

-  GSM and LTE FDD CAT1
-  Provides DC 9V to target devices
-  Ultra-low power consumption
-  Communicating RS-485
-  Rapid installation and deployment
-  Communicating 4-20mA
-  Non-volatile memory stores data
-  Bluetooth technology allows configure the device remotely
-  MQTT, LWM2M and COAP
-  With BatteryCare® technology life time period is up to 10 years



APPLICATIONS:

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

General

Enclosure material	PC
Microcontroller	Ultra-low-power STM32WB
Number of inputs / outputs	up to 4 / 1
Number of RS-485	1
Number of 4-20mA	1
Number of M-BUS	1
Working temperature, °C	-40...+65
Battery type	Li-SOCL2
Battery V/mAh	3.6/19000
Power output to target, V/mA	9/>40
Battery life, year	up to 10
IP Rating	IP68
Dimensions, mm	143x72x50
Weight, g	≤250
Warranty operating period, months	36

Radio

Communication standards	GSM850/900 GSM1800/1900 LTE FDD CAT1
Type of SIM	2x MFF2 UICC (chip SIM)
Bands	LTE: B1/B3/B5/B7/B8/B20 GSM: B2/B3/B5/B8
Module Rate	LTE FDD (Non-CA CAT 1): Max 10Mbps (DL)/5Mbps (UL) GPRS: Max 85.6kbps (DL)/85.6kbps (UL)
Signal lead	Internal
Transmission Power Class 1	30±2dBm
Transmission Power Class 3	23±2dBm
Transmission Power Class 4	33±2dBm
Protocol	MQTT/LWM2M/COAP

Order Info

SKU	Description
GSM	GSM Multifunction Device ORIONMETER GSM 4 DI; 1 DO; IP68; battery 3.6V, 19000mAh; internal GSM/LTE
GSM-RSP/T-S	GSM Multifunction Device ORIONMETER GSM 3 DI; IP68; battery 3.6V, 19000mAh; RS485/sensor/adapter; power output DC9V; internal GSM/LTE
GSM-CLP	GSM Multifunction Device ORIONMETER GSM 3 DI; 1 DO; IP68; battery 3.6V, 19000mAh; 4-20mA; internal GSM/LTE
GSM-MBUS/S	GSM Multifunction Device ORIONMETER GSM M-BUS Converter; 3 DI; IP68; battery 3.6V, 19000mAh; internal GSM/LTE

T: external connections

- 0: no external connections
- S1: soil Moisture sensor
- S2: soil Temperature sensor
- S3: soil EC sensor
- S4: soil Moisture, Temp. & EC sensor
- S5: soil Nitrogen sensor
- S6: soil Phosphorus sensor
- S7: soil Potassium sensor
- S8: soil NPK sensor (Fertilizer)
- S9: soil Moisture, Temp., EC, salinity and NPK sensor
- R2: RS-232 adapter

S: Serial devices

- 01: Incotex Меркурий 230, 234
- 02: Incotex Меркурий 200.02, 200.04, 206
- 03: Energomera CE102M, CE301, CE302, CE303
- 04 Decast Metronic CTK «МАРС / NEO / NEO У Тепловодогран ПУЛЬСАР / ПУЛЬСАР-К
- 06: Termotronic TB-7
- 07: VZLET TCPB-033 TCPB-034
- 10: Saiman ОТАН САРЗУ-Э712 / САР4У-Э712
- 11: Saiman ОПМАН СО-Э711
- 12: Saiman ДАЛА СА4У-Э720 / СА4-Э720
- 13: Saiman ОПМАН СОАР-Э717

- 14: Basic Modbus
- 15: Mirtek-12, Mirtek-32
- 16: Sempal CBTY-11T_RP
- 17: Proservis Pramer TC-100-K
- 18: Valtec VHM-T-C
- 19: SPBZIP ЦЭ2726А, ЦЭ2727А
- 20: Puls CTK-15-M
- 22: Sempal CBTY-11T
- 23: ELF-M
- 24: Капар-2-213-223
- 25: MBUS universal