



OrionM2M

LoRaWAN water meter

Smart 15 PC3

FEATURES:

-  LoRaWAN v1.0.3 Class A
-  Water flow activation
-  High accuracy class
-  Ultra-low power consumption
-  EasyTool technology allows configure the device remotely
-  Backflow, leakage information and magnetic field detection
-  With BatteryCare® technology life time period is up to 7 years
-  Non-volatile memory stores data



APPLICATIONS:

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

General

Water flow activation and direction	Yes	
Microcontroller	Ultra-low-power MCU STM32L0	
Battery, V / mAh	3.6 / 2500	
Battery type	Li-SOCL2	
IP Rating	IP65	
Water temperature, °C	+ 5...+ 90	
Dimensions, mm	L:110 x W:65 x H:75	
Weight, g	≤340	
Meter connection thread type	G3/4	
Type of connection thread of fittings	R1/2	
Pressure maximum, MPa	1.6	
Display / Indicating range / resolution, m3	LCD / 99999 / 0.0001	
Calibration interval, years	6	

Metrological

Nominal Size DN, mm	15	
Metrological class	B	C
Minimum flow rate, Qmin, m3/h	0.03	0.015
Transitional flow rate, Qt, m3/h	0.120	0.023
Nominal flow rate, Qn, m3/h	1.5	1.5
Maximum flow rate, Qmax, m3/h	3.0	3.0
Starting flow, m3/h	0.015	0.010
Maximum permissible error, %: Qt ≤ Q ≤ Qmax	±2 for water temp. 5 to 40 °C ±3 for water temp. 40 to 90 °C	
Qmin ≤ Q < Qt	±5	

Radio

Support Protocol	LoRaWAN v1.0.3
Device class	A
Bands	EU863-870 IN865-867 RU864-870 KZ865-868 US902-928 AU915-928 AS923 KR920-923
LoRaWAN Activation	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
ADR support	Yes

Order Info

SKU	Description
Smart 15 PC3 PC3 1 B 110/F	Universal LoRaWAN water meter Smart 15 PC3 class B
Smart 15 PC3 PC3 1 C 110/F	Universal LoRaWAN water meter Smart 15 PC3 class C
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	