



OrionM2M

LoRaWAN water meter

META

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 10 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 type	Li-SOCL2
Battery, V / mAh	3.6 / 2500
Battery life, year	up to 10
IP Rating	IP65
Dimensions, mm	L:110 x W:75 x H:84
Weight, g	≤500
DIN	DIN15
Warranty operating period, months	36

Radio

Support Protocol	LoRaWAN v1.0.3/A
Device class	A
LoRa Power Output	up to 14 dBm (25 mW)
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

Metrological

Parameter	UM-15B	CM-15B	UM-15C
Nominal Size DN, mm	15		
Water temperature, °C	+ 5...+ 90	+ 5...+ 30	+ 5...+ 90
Metrological class	B (R50)	B (R50)	C (R100)
Minimum flow rate, Q1, m3/h	0.03	0.03	0.015
Transitional flow rate, Q2, m3/h	0.12	0.12	0.0225
Nominal flow rate, Q3, m3/h	1.5	1.5	1.5
Maximum flow rate, Q4, m3/h	3.0	3.0	3.0
Starting flow, m3/h, max	Q1 x 0.5		
Maximum permissible error, %: – Q2 ≤ Q ≤ Q4	±2 for water temp. 0.1 to 30 °C ±3 for water temp. > 30 °C		
– Q1 ≤ Q < Q2	±5		
Pressure maximum, MPa / loss, kPa	1.6 / 63		
Display / Indicating range / resolution, m3	LCD / 99999 / 0.0001		

Order Info

SKU	Description	
ORN-META-[CA]/F	LoRaWAN water meter ORIONMETER META	
	C: Type · LW: LoRaWAN A: antenna · 8: internal 868 · 9: internal 915	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