



# RMU CP CNT

## Industrial Gateway

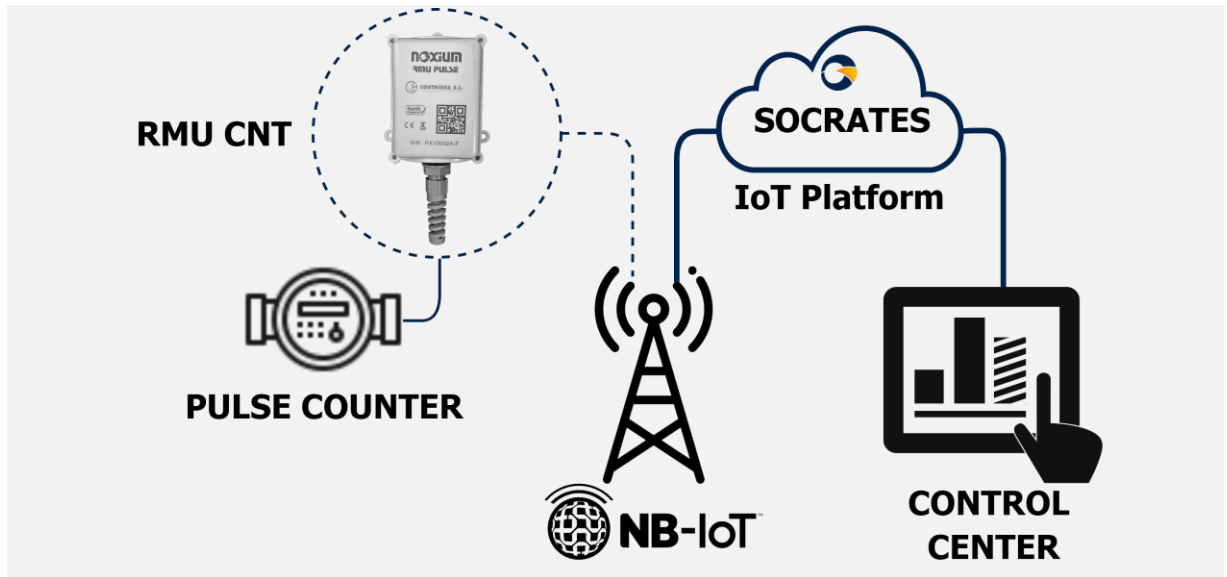
Pulse counter collector with  
multiband NB-IoT communications.



### Main Features

- Ultra low power consumption with optimized operation mode.
- Reliability in Data Acquisition and Communication Operations
- Remote Configuration and Maintenance: SOCRATES platform
- High capacity for logging and local storage of readings
- Ergonomic, small footprint and quick installation

## Typical Application Pulse water meter collection



### TECHNICAL SPECIFICATIONS

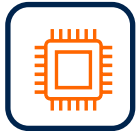
Wireless Connectivity NB2/ CatM1 / GPRS	
LTE+ → NB2 + CatM1	LTE+ NB-IoT.2 – data rate (kbps): 32 Download, 70 Upload
	LTE+ CatM.1 - data rate (Mbps): 1 (DL), 1 (UL)
2G → EDGE + GPRS	2G EDGE – data rate (kbps): 296 (DL), 236.8 (UL)
	2G GPRS – data rate (kbps): 107 (DL), 85.6 (UL)
Features and benefits	
<b>Pulse Interfaces</b>	Up to two digital pulse inputs with signal processing capability up to 100 Hz with programmable filtering and noise filtering.
<b>Digital Interfaces</b>	Up to 2 digital inputs with programmable alarm capability per event or edge. Functionalities are configured at the factory.
<b>Batteries</b>	Autonomy according to battery and usage regime.
<b>eSIM support</b>	Integrated eSIM that enables remote switching of communications carriers as specified in GSMA SGP .02 v3.2
<b>FOTA</b>	<b>Sócrates Platform</b> remote firmware upgrade
<b>Recording capacity</b>	It has an internal memory with the capacity to temporarily record more than 20,000 readings, with behavior according to the LIFO/FIFO strategy.
<b>Data sending periods</b>	From 24 hours to weekly programming, according to connection schedules.
<b>NFC mobile app</b>	Obtaining configuration parameters and operating statistics



Connectivity 4G LTE (Cat M1/NB-IoT)  
Fallback 2G (s. versiones)



Secure channel communications.  
Data encryption and securization.



NFC chipset, allowing configuration parameters and operating statistics to be obtained locally via smartphone



IP67/IK09 and UL94 HB polycarbonate watertight plastic enclosure with sealed screws.



Intelligent self-management mechanisms, noise filtering and alarm signal processing.



Dimensions: 86x66x35 mm  
Weight: 500 gr. (version 2C1)  
Optional M12 connection fitting



Local interface with two-counter capability, and two auxiliary inputs for error or flow direction detection



High local registration capacity  
Versatility of configurations  
Complete operation information



Intelligent data transport over wireless networks enables remote FOTA firmware update and configuration



Industrial Working Temperature  
From -40 to 80°C



Internal battery power supply.  
Efficient energy management that extends battery life.  
Ultra low power consumption.



Ergonomic, easy installation and registration of devices, wall or pole mounting

## CERTIFICATIONS

Fields	References
Security	IEC 62368-1 / EN 62368-1
EMC requirements	ETSI EN 301 489-1 V2.2.0 (2017-03) & ETSI EN 301 489-52 V1.1.0
Enviromental	IEC 6800xx Cold, Heat and Variations (-40 a 80°C)(*)
Degrees of Protection	IP 67 IK9
(*) consult degradations due to use in extreme ranges	

## IoT SOCRATES PLATFORM

This platform is in charge of managing the RMU family of devices, as well as managing the data received from them, offering: **Network Monitoring, Device Management** and **Data Service**.

**Alarmas**  
24 h  
Totales: 0  
Medidas: 0

**Pendientes**  
Totales: 1352  
Medidas: 0

**Resumen de unidades**  
Alta: 2060  
Instaladas: 2060  
Con alarma: 2060  
En almacén: 0

**Listado de concentradores**

default (16) (16 registros/página, total 2124 registros.)

Inst.	Conf.	Alar.	Conexión	N.D.
		●	2023-02-24 14:32:02	22
		●	2023-02-24 14:31:36	9
		●	2023-02-24 14:31:11	10
		●	2023-02-24 14:30:56	1
	⚠	●	2023-02-24 14:30:56	2
		●	2023-02-24 14:30:46	25
		●	2023-02-24 14:30:31	5
		●	2023-02-24 14:30:26	2

## ANDROID NFC Reader: Sócrates Mobile Assistant

This android application, hereinafter SMA, has a mobile viewer that allows to characterize the suitability of the installations and their locations.

It is a key tool in the certification of installations, so that there is a guarantee of proper operation of the installed devices.

**Noxium RMU** Lector Editor

Nueva Lectura

Datos

F: U.T.NOXIUM

IM: 863266051178104

HW: R3

TO: 2023-09-18 08:14:07

V: FLOW-SADC-R3 13.00

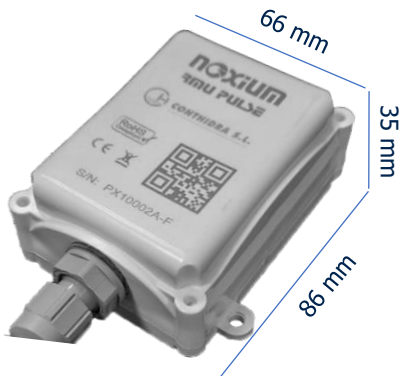
SM: 901288002458823

CI: 8988239000007109925

FM: 2110807SIM7022

NRE: 25

### Dimensions

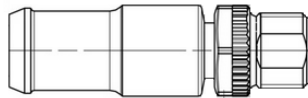


### Wall or pole mounting



### Typical Connection

PIN	Señal/Color M12 Hembra
1	Entrada Contador 2
2	Entrada Contador 1
3	Masa de señal (SG)
4	Entrada Digital/Analógica 1
5	Entrada Digital/Analógica 2



I/O terminal 1m cable with M12 connector

## ORDERING INFORMATION

### Available options:

Option	Connectivity	Option	Battery capacity	Option	Accessories
<b>NB</b>	NB2 multiband	<b>2C1</b>	4 years	<b>LM</b>	M12 cable
<b>NBxx</b>	NB2 band xx			<b>LR</b>	RJ11 cable
<b>QM</b>	LTE-CatM1/2G				
<b>Q3</b>	NB/4G CatM/fallback 2G				

### Active references in production:

#### RMU CNT NB 2C1 LM

**Industrial Gateway Model Pulse** Collector/Pulse Counter Gateway, with NB-IoT multiband communications, battery power supply with 4 years autonomy and a M12 cable. IP67/IK09 and UL94 HB polycarbonate plastic enclosure with inlet cable gland.

