



## Introduction

S830 LoRaWAN™ Sensor Node enables remote reading of existing water meters and transmits it wirelessly over the LoRaWAN™ Network. In addition to Automatic Meter Reading (AMR) functionality, S830 offers advanced features that empowers the utility providers to offer additional services to their customer.

The high strength, impact resistant IP67 rated casing makes S830 well suited to be used in harsh outdoor environments.

## S830 Features

- Temper detection
- Removal detection
- Back flow detection
- High flow detection
- No flow detection
- Small and large leakage detection
- Magnetic temper detection
- Battery health detection

### S830 Technical Specifications

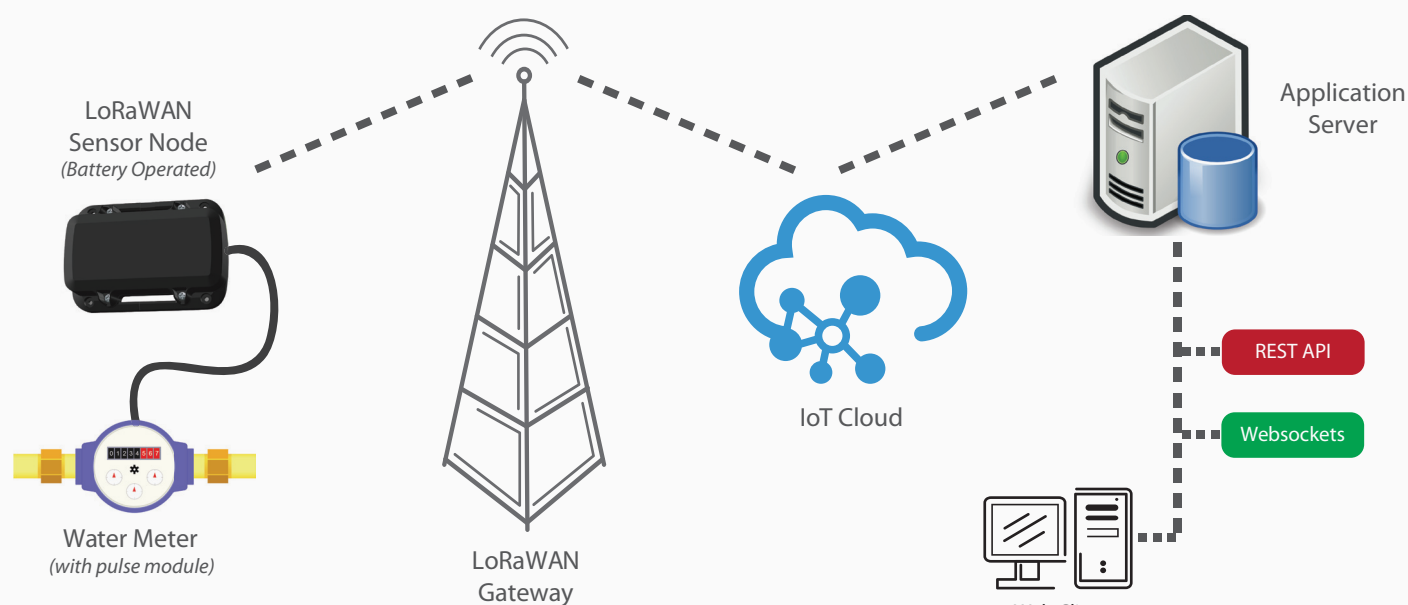
Communication:	LoRaWAN™
Communication Range:	Up to 15 km Coverage at Suburban and up to 5 km Coverage at Urban Area
TX Power:	Upto +14dBm (25mW)
RX Sensitivity:	Down to -146 dBm
Radio Band	868 MHz (EU)
Power Source:	Lithium battery
Battery Life:	10 years (12 transmissions per day) 5 years (24 transmissions per day) 2 years (48 transmissions per day)
Digital Inputs:	4x Logic Level (for pulse, tamper, backflow etc.)
Digital Outputs:	2x Open Connector (to control supply valve etc.)
Minimum Pulse Duration:	1 millisecond
Dimensions:	5.4" x 2.7" x 1.3"
Casing Material:	High strength, impact resistant, RoHS compliant ASA Plastic
IP Rating :	IP67
Operating Temperature:	-20°C ... +70°C
Radio Compliance:	Safety: IEC 60950-1:2005 (2nd Ed: A1:2009) Health: EN 62479 EMC: EN 301 489-3 v1.6.1 Radio: EN 300 220-2 v2.4.1

### LoRaWAN Sensor Node



### Water Meter (with pulse module)

## AMR For Water System Overview



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