S820
Sigfox Sensor Node

sigfox
Make Things Come Alive

Long Range Communication

Up to 15 years long battery life*

Easy Installation

Introduction

S820 Sigfox Sensor Node enables remote reading of existing water meters and transmits it wirelessly over the Sigfox Network. In addition to Automatic Meter Reading (AMR) functionality, S820 offers advanced features that empowers the utility providers to offer additional services to their customer.

The high strength, impact resistant IP67 rated casing makes S820 well suited to be used in harsh outdoor environments.

S820 Features

- Temper detection
- Removal detection
- Back flow detection
- High flow detection

- No flow detection
- Small and large leakage detection
- Magnetic temper detection
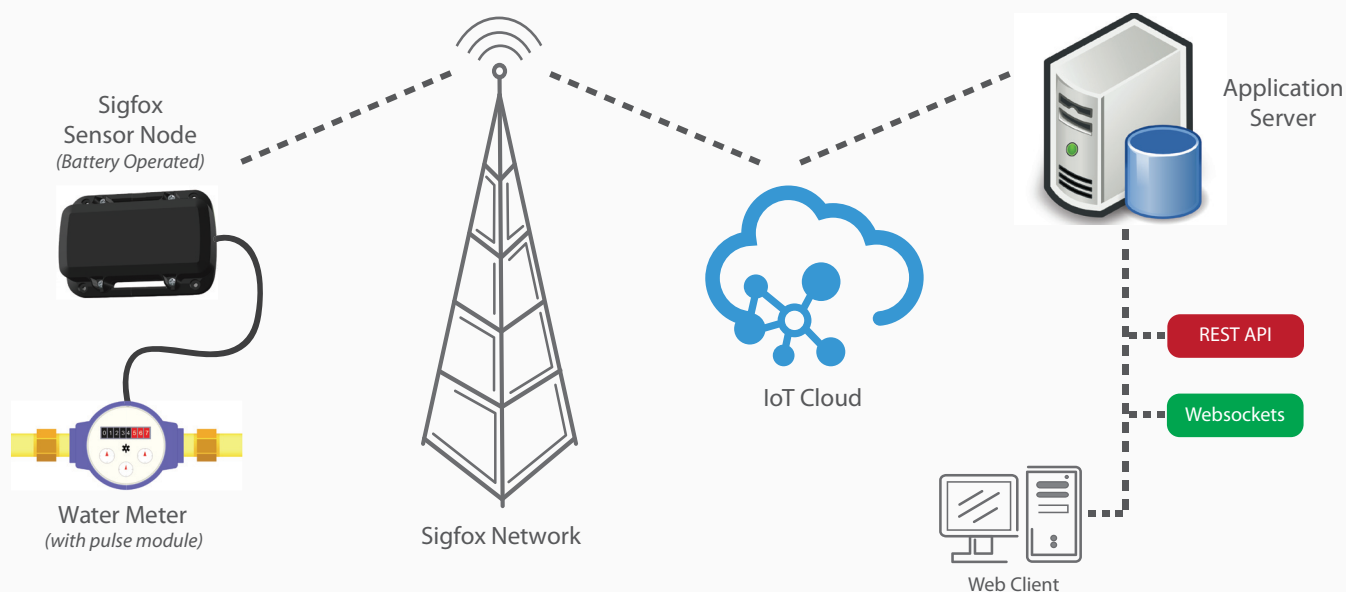- Battery health detection

S820 Technical Specifications

Communication:	Sigfox
TX Power:	Upto +14dBm (25mW)
RX Sensitivity:	Down to -127 dBm
Radio Band	868 MHz (EU)
Radio Compliance:	CE, Sigfox Verified
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

Sigfox
Sensor Node

Water Meter
(With pulse module)

AMR For Water System Overview

Sigfox
Sensor Node
(Battery Operated)

Water Meter
(with pulse module)

Sigfox Network

IoT Cloud

Application
Server

REST API

Websockets

Web Client

SciFlair