



# packetPRESSURE

**PacketPRESSURE** device is designed to monitor the pressure of water systems via LoRaWAN®.

The device offers a cost-effective and alternative to regular maintenance and site inspection. Utility companies can remotely check and maintain their water systems.

The device can be configured for pressure thresholds which when reached, an alert or notification will be sent to utility providers to deploy resources when necessary.

## Features

- LoRaWAN® Enabled
- IP68
- Fit for outdoor installation
- Accurate water pressure readings
- Battery Powered

## Applications

- Smart City
- Smart Utilities
- Manufacturing

## Technical Specification

### LoRa

Device	S76S
Integrated MCU	STM32L073xZ
Integrated RF IC	SX1276

### RF

Frequency	EU868/US915/AS923
Antenna	Via IPX/U.FL Connector
RF Power	+20dBm (100mW RF output)
Link Budget	Up to 168dB

### Electricals

Voltage Rating	3.3v . 5v	
Power Source	Battery	
Battery Type	Li-Po, Li-ion, Lithium Thionyl Chloride	
Charger	Battery Type	Single Cell LiPo, Li-ion
	Charging Current	200mA
	Voltage Range	3.3v to 5.5v
	Programmable Charging Current	15mA to 500mA (upon request)
	Charging Feature	Preconditioning charge, end-of-charge control, reverse discharge protected.

### General Device Specifications

Pressure Sensor	Pressure Range	0~1.6 Mpa
	Accuracy	0.5%~1%FS (0.5%, 0~55°C)
	Threadably	G1/4
	Adapter	G1/2 to G1/4
	Response Time	<2.0 ms
	Operating Temperature	-20~85°C
	Normal Operating Pressure	≤2.0 Mpa
	Damaged Pressure	≥3.0Mpa