## **Smart Valve Positioning Sensor**

Smart Factory, Smart Energy

### SKU: SVP



Safe Zone

Hazardous Zones

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Smart Valve Positioning Sensor is a ruggedized valve position sensor integrating multiple independent sensors to reliably detect and track the valve position and the number of turns. The data is sent to the internet through LoRaWAN/ Sigfox/ NB-IoT. Additional vibration and temperature sensors complete the functionality. The device is conceived to work in demanding industrial environments and is fully certified. The battery is exchangeable

#### Applications

Valve Positioning Monitoring, Vibration Monitoring

**Notes For Applications** 

SVP-H1.PNG

LoRaWAN class A compliant device

- Internal sensors for 3-axis acceleration, tilt, rotation, magnetic field, vibrations, temperature
- Easy to install with multiple mounting options
- Robust IP69K industrial housing

#### DETECT AND TRACK THE VALVE POSITION AND THE NUMBER OF TURNS



SVP-H2.PNG

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Created date: Jun-15-2023



## Specification

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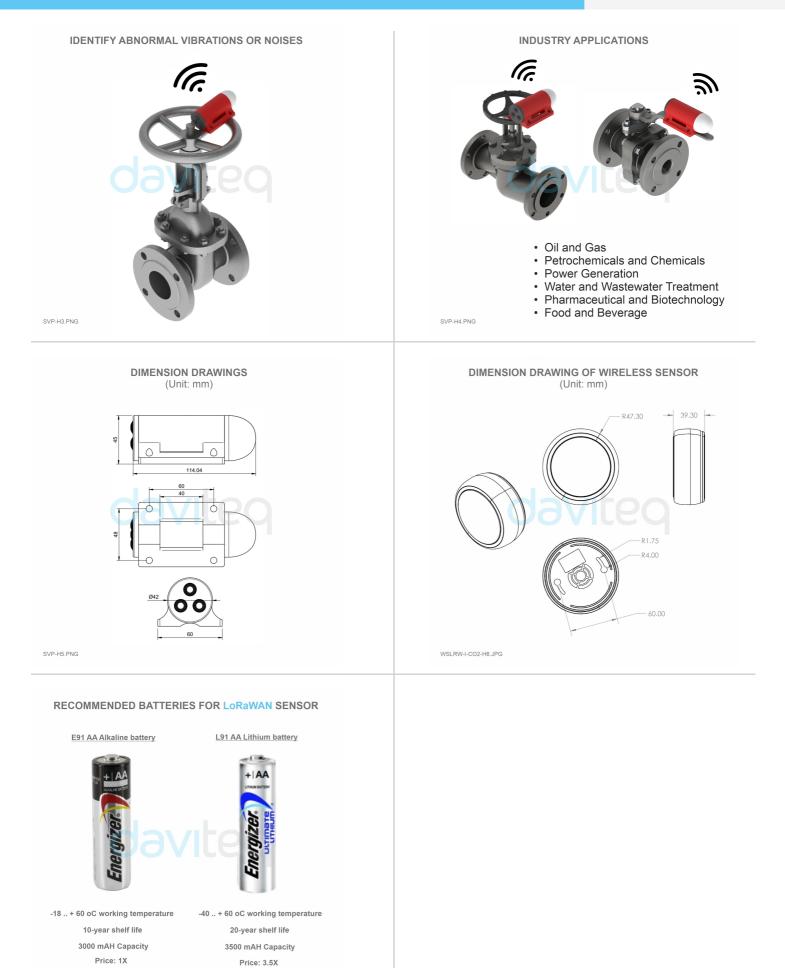
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SENSOR SPECIFICATION	
Accelerometer	
Range	±2g, ±4g, ±8g, ±16g
Resolution	12-bit, 4mG
Accuracy (typ.)	±40mG
Magnetic sensor	
Detection threshold	Max. ±4.8 mT
Magnetic response	Omnipolar
Reset activation (typ.)	After 7.5 sec
Vibration	
Range	Up to 1kHz
GPS	
Receiver	Quectel L86 with patch antenna
Sensitivity	-167dBm @ Tracking, -149dBm @ Acquisition
GNSS	GPS & GLONASS L1 band
Horizontal Position Accuracy	2.5m CEP
Operating conditions	
Air Temperature	-40~70 °C
Valve Temperature	-40~90°C
Humidity	0~95% RH
Device power supply	
Battery type	SAFT M 20 EX SV
Expected battery lifetime	Up to 2 years depending on device configuration
Certifications	
CE	RED 2014/53/EU
UKCA	Radio Equipment Regulations 2017
Ex	Intrinsic safety "I", "IS" for GAS zone 1
ATEX/ IECEx	II 2G Ex ib IIC T4 Gb
RoHS	Compliant
Mechanical specifications	
Weight	350 g
Dimensions	114mm × 60mm × 45mm
COMMUNICATION	
Radio/ Wireless	868MHz/ 915MHz
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## **Ordering Information**

ITEM CODE

DESCRIPTIONS

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