### Wireless Process Pressure Sensor

WIRELESS SENSOR WS433-M12F

## daviteo

#### SKU: WS433-M12F-PPS



Safe Zone

Hazardous Zones

Wireless Process Pressure Sensor is a combination of wireless sensor transmitter WS433-M12F and sensor PPS , it has different kind of measurement, such as Gage/ Absolute/ Differential, raneg -1~700 bar, high accuracy and stability, Ultra-low power consumption.

#### Applications

Water Pressure Pipeline Monitor, Process Monitoring, Smart Irrigation, Fuel Monitoring, Level Monitoring, Safety Monitoring

**Notes For Applications** 

WS433-M12F-H2.PNG

#### **Reliable & Secured Wireless Connection**

Sub-GHz technology from Texas Instruments allows reliable wireless connection and secured data by AES-128

#### 10-year with a single battery

Ultra-low power sensing technology from Daviteq with Ultra-low power wireless technology fromTexas Instruments allow the sensor can last up to 10 years with a single battery AA.

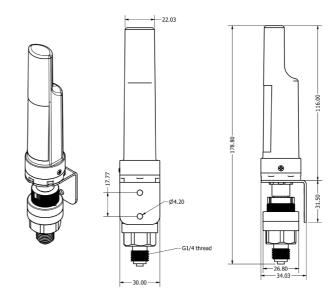


High accuracy 0.5% of Span

#### Wide measurement range

Select from -1~700 bar

#### DIMENSION DRAWINGS OF PRESSURE SENSOR WITH WIRELESS MODULE



PPS-H5.PNG

#### DAVITEQ TECHNOLOGIES INC

👩 Ho Chi Minh City, VN | Koblenz, DE | Melbourne, AU | Zurich, CH

www.iot.daviteq.com

+84.28.6268.2523 / 6268.2524

😡 info@daviteg.com



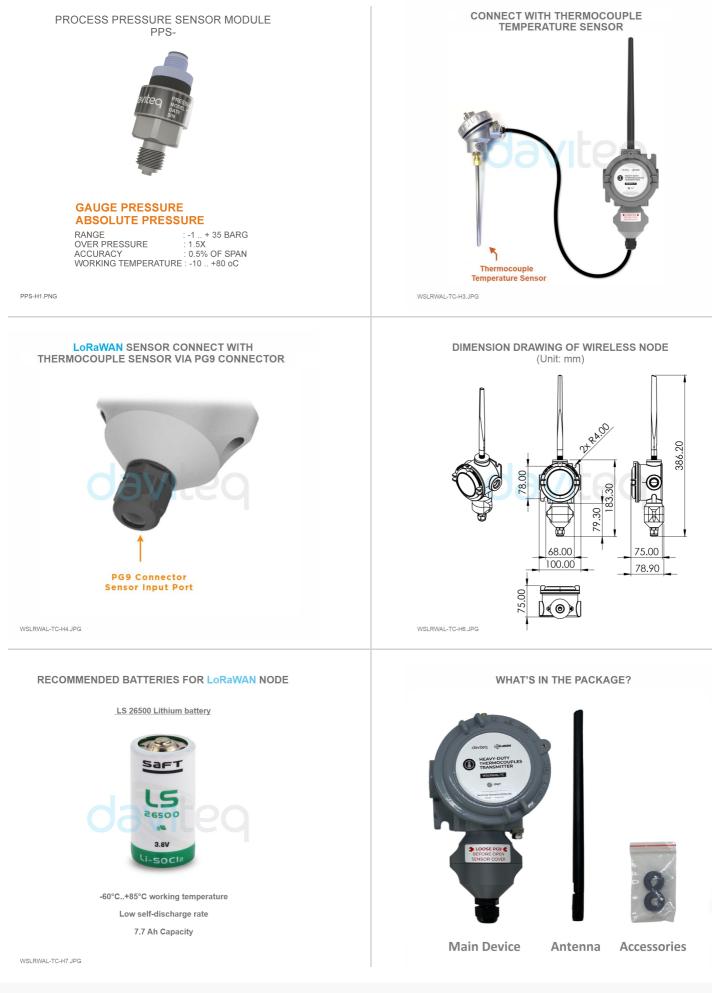
#### Specification

SENSOR:	
Sensing Technology	Advanced Piezo/ Capacitance technology
Measuring range	Select from -1~35 bar Gage/ Absolute/ Sealed Gage
Over pressure protection	1.5 x Span
Accuracy & Stability	0.5% of span, < 0.3% span/year
Measuring Fluids	Any fluid which is workable with wetted materials 304SS/316SS
Working temperature	-10~80°C
Process connection	Standard G1/4 or Others (consult factory)
Electrical connection M12-male connector	undefined
WIRELESS TRANSMITTER:	
Data speed	Up to 50kbps
Tranmission distance, LOS	1000m
Tranmission distance, LOS Antenna	1000m Internal Antenna
Antenna	Internal Antenna
Antenna Battery	Internal Antenna 01 x AA 1.5-3.6VDC, up to 10-year operation, depends on configuration
Antenna Battery Frequency Band	Internal Antenna 01 x AA 1.5-3.6VDC, up to 10-year operation, depends on configuration ISM 433MHz, Sub-GHz technology from Texas Instrument, USA
Antenna Battery Frequency Band International Compliance	Internal Antenna 01 x AA 1.5-3.6VDC, up to 10-year operation, depends on configuration ISM 433MHz, Sub-GHz technology from Texas Instrument, USA ETSI EN 300 220, EN 303 204 (Europe) FCC CFR47 Part15 (US), ARIB STD-T108 (Japan)
AntennaBatteryFrequency BandInternational ComplianceVietnam Type Approval Certification	Internal Antenna01 x AA 1.5-3.6VDC, up to 10-year operation, depends on configurationISM 433MHz, Sub-GHz technology from Texas Instrument, USAETSI EN 300 220, EN 303 204 (Europe) FCC CFR47 Part15 (US), ARIB STD-T108 (Japan)QCVN 73:2013/BTTTT, QCVN 96:2015/BTTTT (DAVITEQ B00122019)
AntennaBatteryFrequency BandInternational ComplianceVietnam Type Approval CertificationSecurity Standard	Internal Antenna01 x AA 1.5-3.6VDC, up to 10-year operation, depends on configurationISM 433MHz, Sub-GHz technology from Texas Instrument, USAETSI EN 300 220, EN 303 204 (Europe) FCC CFR47 Part15 (US), ARIB STD-T108 (Japan)QCVN 73:2013/BTTTT, QCVN 96:2015/BTTTT (DAVITEQ B00122019)AES-128
AntennaBatteryFrequency BandInternational ComplianceVietnam Type Approval CertificationSecurity StandardOperating temperature of PCB	Internal AntennaO1 x AA 1.5-3.6VDC, up to 10-year operation, depends on configurationISM 433MHz, Sub-GHz technology from Texas Instrument, USAETSI EN 300 220, EN 303 204 (Europe) FCC CFR47 Part15 (US), ARIB STD-T108 (Japan)QCVN 73:2013/BTTTT, QCVN 96:2015/BTTTT (DAVITEQ B00122019)AES-128-40~60°C (with AA L91 Energizer)

# DAVITEQ TECHNOLOGIES INC ○ Ho Chi Minh City, VN | Koblenz, DE | Melbourne, AU | Zurich, CH ◆ +84.28.6268.2523 / 6268.2524 ∞ info@daviteq.com www.iot.daviteq.com Created

Created date: May-27-2024

daviteq



DAVITEQ TECHNOLOGIES INC

Ho Chi Minh City, VN | Koblenz, DE | Melbourne, AU | Zurich, CH +84.28.6268.2523 / 6268.2524

www.iot.daviteq.com

info@daviteq.com

Created date: May-27-2024

Updated date: Aug-28-2024



#### **Ordering Information**

ITEM CODE	DESCRIPTIONS
WS433-M12F	Wireless Sensor Transmitter 433MHz, compatible with all DULP sensor modules, AA 1.5VDC battery, IP67
PPS-G-10	Gage Pressure Sensor DULP Module, range 0-10 barg, accuracy 0.5%, process connection G1/4-male, 304SS, electrical connector M12-male
Notes	* Must order for both wireless transmitter and sensor module