

# Sigfox Analog Input Node



Smart Agriculture, Smart Building, Smart City, Smart Energy, Smart Facility, Smart Factory, Smart Farm, Smart Retail, Smart Utilities

SKU: WSSFC-MA

OBSOLETE, replaced by

Safe Zone

Hazardous Zones

## SIGFOX SENSOR - ANALOG INPUT BATTERY POWERED



WSSFC-AI-H1.PNG



WSSFC-MA is the modular design Sigfox wireless sensor, based on 10-year experience in design and manufacturing Industrial sensor of Daviteq Company. It can accept the analog output signal 0-20mA from any sensor, transmitter... It can supply the power to external sensor at 15VDC @ 50mA max. With Ultra-low power design and smart firmware allow the complete Wireless and Sensor package run on a Single battery C type up to 10 years. WSSFC-MA can support all regions of Sigfox network in over the World, RC1, RC2, RC3, RC4, RC5, RC6, RC7.

### Applications

Process Monitoring, Safety Monitoring

### Notes For Applications

- mA sensor power supply: Check transmitter output of 15 VDC to match mA sensor if sensor power source is from transmitter
- Accuracy and resolutions: Check whether those meet the requirements
- Environmental Conditions: Account for temperature, humidity, and other environmental factors.
- Mounting and Enclosure: Determine the mounting method and enclosure type.
- Compatibility: Ensure compatibility with your existing system or sensors.

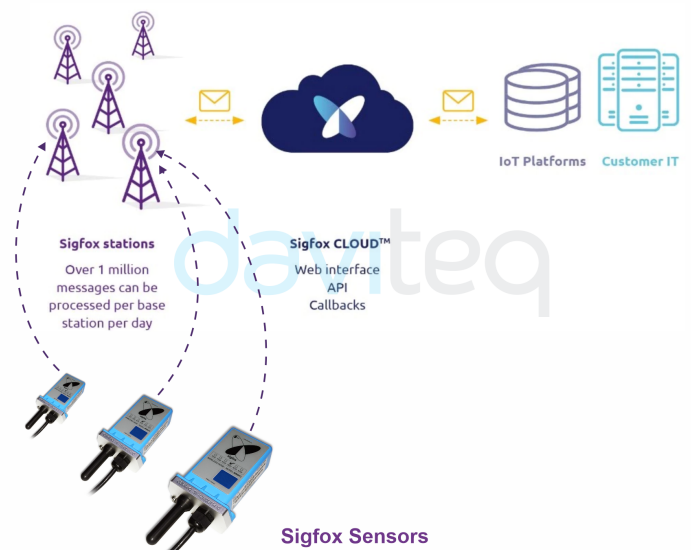
**Sigfox Ready**  
Device are best operating performance on the SIGFOX network

**10-Year battery**  
Ultra-low power sensing technology from Daviteq with Ultra-low power wireless technology allow the sensor can last up to 10 years with 02 x Type AA batteries.

**15V supply to external sensor**  
Supply 15VDC max 50mA to external sensor

**Pre-calibrated**  
Analog input 0-20mA is pre-calibrated at factory for quick installation

## SYSTEM ARCHITECTURE



WSSFC-AI-H2.PNG

## DAVITEQ TECHNOLOGIES INC

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## Specification

Input	01 x Analog input, 0~20mA
Accuracy	0.05% of span
Resolution	1/3000
Temperature drift	< 50ppm
Power supply to sensor	15VDC @ max 50mA
Electrical connection	M12-M connector
COMMUNICATION	
Sigfox zones	select RC2-RC3-RC4-RC5 or RC1-RC6-RC7
Antenna	Internal Antenna 2.0 dBi
Battery	02 x AA Type 1.5VDC, working time up to 10 years (depends on configuration)
RF Module complies to	CE, FCC, ARIB
Working temperature	-40~60°C (using Energizer® L91 battery)
Dimensions	H106xW73xD42 (Wireless part only)
Netweight	190g (Wireless part only)
Housing	Aluminum + Polycarbonate plastic, IP67

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**SIGFOX SENSOR ANALOG INPUT  
CONNECT WITH 4-20mA LEVEL SENSOR**



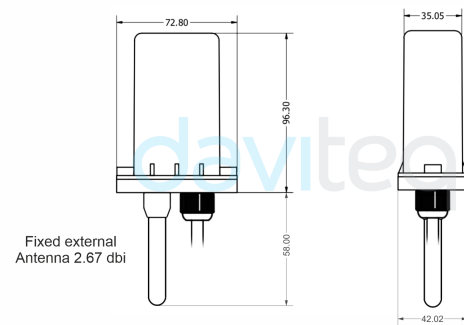
**SIGFOX SENSOR ANALOG INPUT  
CONNECT WITH 4-20mA SOIL MOISTURE SENSOR**



**SIGFOX SENSOR ANALOG INPUT  
CONNECT WITH 4-20mA PRESSURE SENSOR**

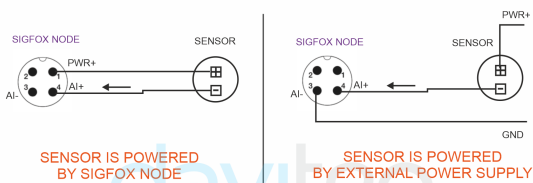


**DIMENSION DRAWINGS FOR  
SIGFOX SENSOR WITH ANALOG INPUT**

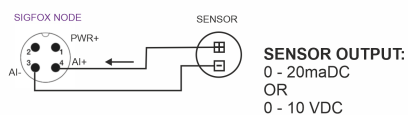


**WIRING FOR SIGFOX SENSOR WITH ANALOG INPUT**

**CASE 1 - WORK WITH LOOP POWERED SENSOR**



**CASE 2 - WORK WITH NON - LOOP POWERED SENSOR**



WSSFC-AI-H7.PNG

WSSFC-AG-H8.PNG

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## Ordering Information

ITEM CODES	DESCRIPTIONS
WSSFC-MA-10	Sigfox Sensor with Analog input 0-20mA, pre-calibrated, Internal antenna, Type AA battery 1.5VDC, IP67, M12-M for sensor connection, for all RC zones.

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