

Sigfox Node with Integrated I/O



Smart Agriculture, Smart Building, Smart City, Smart Facility, Smart Farm, Smart Healthcare, Smart Utilities, Smart Transportation, Smart Factory

SKU: WSSFC-IO

SIGFOX Node with Integrated I/O
WSSFC-IO



WSSFC-IO-H1.PNG



Safe Zone

Hazardous Zones

WSSFC-IO is a Sigfox wireless sensor with integrated I/O ports allow it to connect to sensors, meters, equipments... directly and easily. The product has an IP67 protection rating, allowing the deployment of indoor and outdoor monitoring and control applications. Built-in on-site data analysis features that help provide useful information about the server for presentation and reporting needs. WSSFC-IO can be used in many applications such as machine monitoring, production monitoring, environmental monitoring, smart farm, etc. It also supports all regions of the Sigfox network worldwide, RC1, RC2, RC3, RC4, RC5, RC6, RC7.

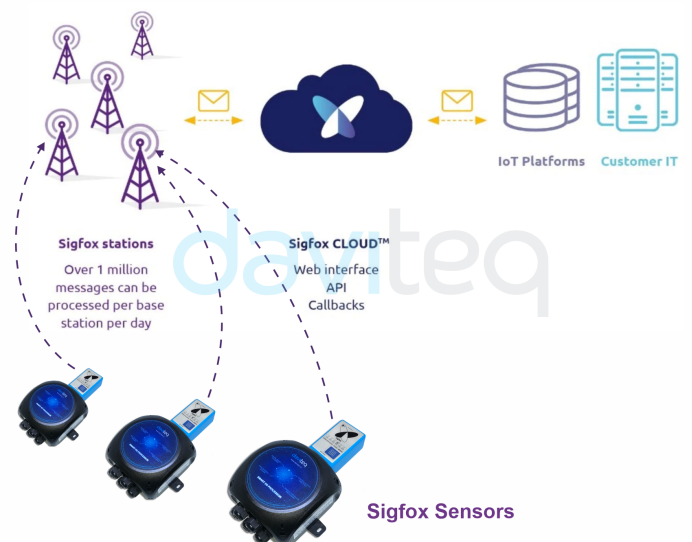
Applications

Process Monitoring, Safety Monitoring, Energy Monitoring, Production Monitoring

Notes For Applications

- Sigfox Ready**
Device are best operating performance on the SIGFOX network
- Integrated I/O Ports**
Multiple I/O like Digital, Analog, Relay, Pulse in one Single Device
- AC Power Supply**
Integrated AC Power supply with very wide input range 85~305VAC for stable working!
- Outdoor design**
IP67 design for both Indoor and Outdoor applications

SYSTEM ARCHITECTURE



WSSFC-IO-H2.PNG

DAVITEQ TECHNOLOGIES INC

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Created date: Dec-21-2022


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1/4


Specification

Sigfox zones	select RC2-RC3-RC4-RC5 or RC1-RC6-RC7
Antenna	Internal Antenna 2.67 dBi
RF Module complies to	CE, FCC, ARIB
Integrated I/O Module	4AI/DI, 4DI, 4 Relay, 1 Pulse PWM output (refer specification of STHM-MBIO)
Digital Inputs	Opto-coupler, 4.7k Ω input resistance, 5000V rms isolation, Logic 0 (0~1VDC), Logic 1 (5~24VDC), Functions: logic status 0/1 or Pulse counting (32-bit counter with max 4kHz pulse)
Analog Inputs	Select between 0~10VDC input or 0~20mA input, 12-bit Resolution, can be configured as Digital input (max 10VDC input)
Relay Output	Electro-mechanical Relays, SPDT, contact rating 24VDC/2A or 250VAC/5A, LED indicators, Latch control enable
Pulse Output	Open-collector, opto-isolation, max 10mA and 80VDC, On/off control, Pulser (max 2.5kHz, max 65535 Pulses) or PWM (max 2.5kHz)
Power supply	85~305VAC, 47~440Hz or 9~36VDC
Back-up battery	Lithium Super Capacitor (to alert shortage of power supply)
Terminal Block	pitch 5.0mm, rating 300VAC, wire size 12~24AWG
Working temperature	-40~85 $^{\circ}$ C
Dimension & weight	H230xW130xD77, < 1.5 kgs
Housing	Aluminum + Polycarbonate plastic, IP67

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2/4

MULTI I/O REMOTE MONITORING VIA SIGFOX NETWORK



WSSFC-IO-H3.PNG

MANUFACTURING MONITORING



WSSFC-IO-H4.PNG

MACHINES / EQUIPMENTS CONDITION MONITORING



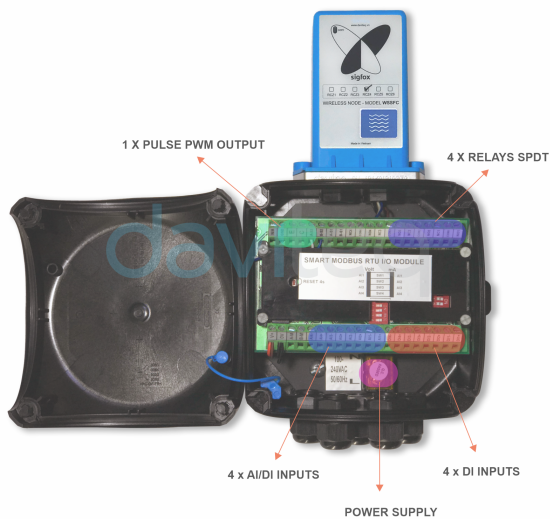
WSSFC-IO-H5.PNG

SMART AGRICULTURE / SMART FARM / ENVIRONMENTAL MONITORING



WSSFC-IO-H6.PNG

INTERNAL WIRING



WSSFC-IO-H7.PNG

USB-RS485 CONFIGURATION CABLE



WSSFC-IO-H8.PNG

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Ordering Information

ITEM CODES	DESCRIPTIONS
WSSFC-IO-9-DC-01	Sigfox node with integrated I/O, 4AI/DI, 4DI, 4xRelay, 1xPulse Output, 9-36VDC power supply in IP67 Polycarbonate box, Internal antenna, RC2-RC3-RC4-RC5 zones
WSSFC-IO-8-DC-01	Sigfox node with integrated I/O, 4AI/DI, 4DI, 4xRelay, 1xPulse Output, 9-36VDC power supply in IP67 Polycarbonate box, Internal antenna, RC1-RC6-RC7 zones
WSSFC-IO-9-AC-01	Sigfox node with integrated I/O, 4AI/DI, 4DI, 4xRelay, 1xPulse Output, 100-240VAC power supply in IP67 Polycarbonate box, Internal antenna, RC2-RC3-RC4-RC5 zones
WSSFC-IO-8-AC-01	Sigfox node with integrated I/O, 4AI/DI, 4DI, 4xRelay, 1xPulse Output, 100-240VAC power supply in IP67 Polycarbonate box, Internal antenna, RC1-RC6-RC7 zones
ACCESSORIES	
RS485-FM12-USB-1	RS485/USB multi-purpose Configuration cable with connector m12 male, female and flying leads, with Power adapter 12VDC/2.0A
Notes	* Purchase configuration cable RS485-FM12-USB-1 for off-line configuration of iConnector

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4/4