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Wireless Sensors & Actuators ECOSYSTEM
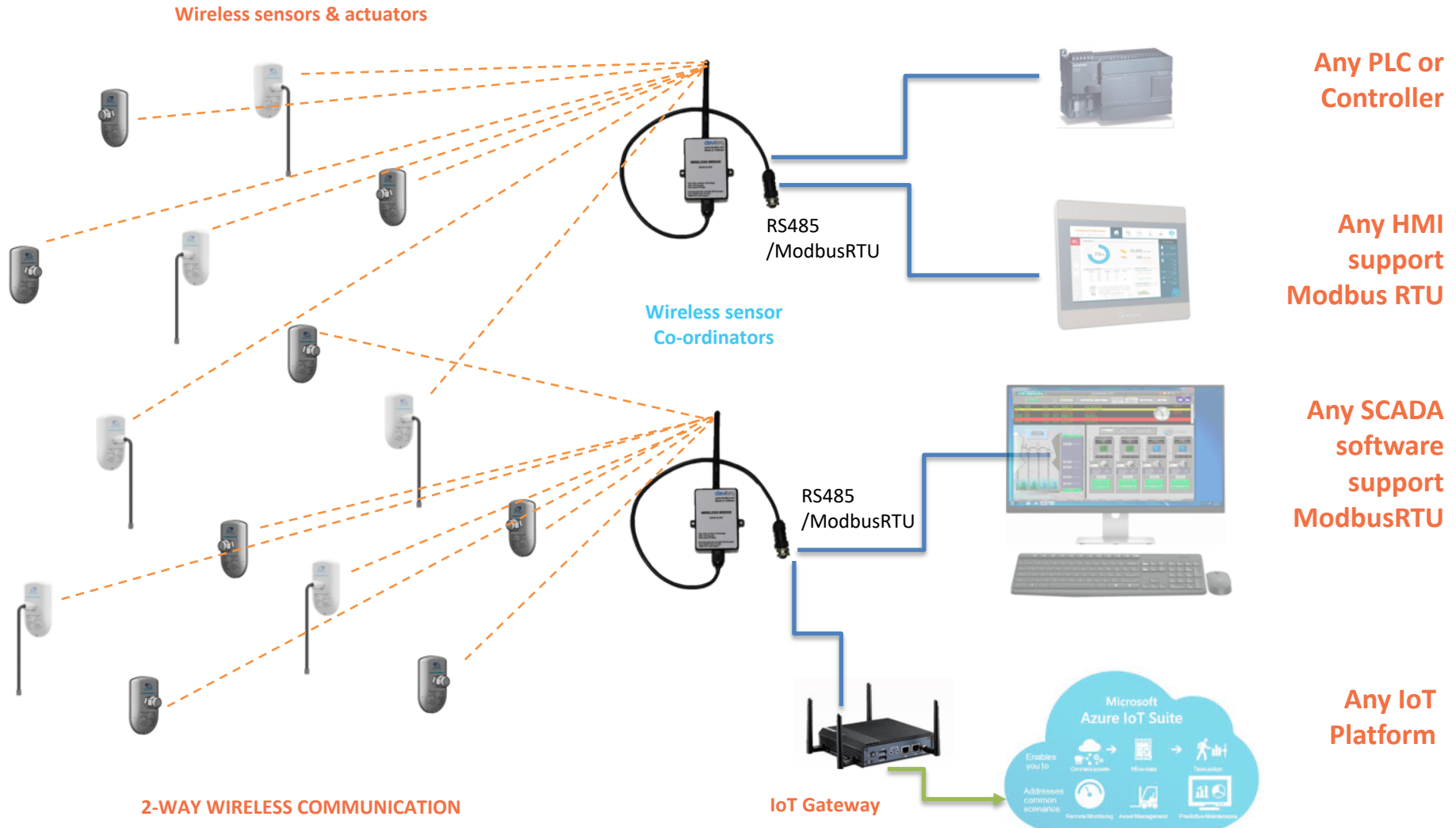
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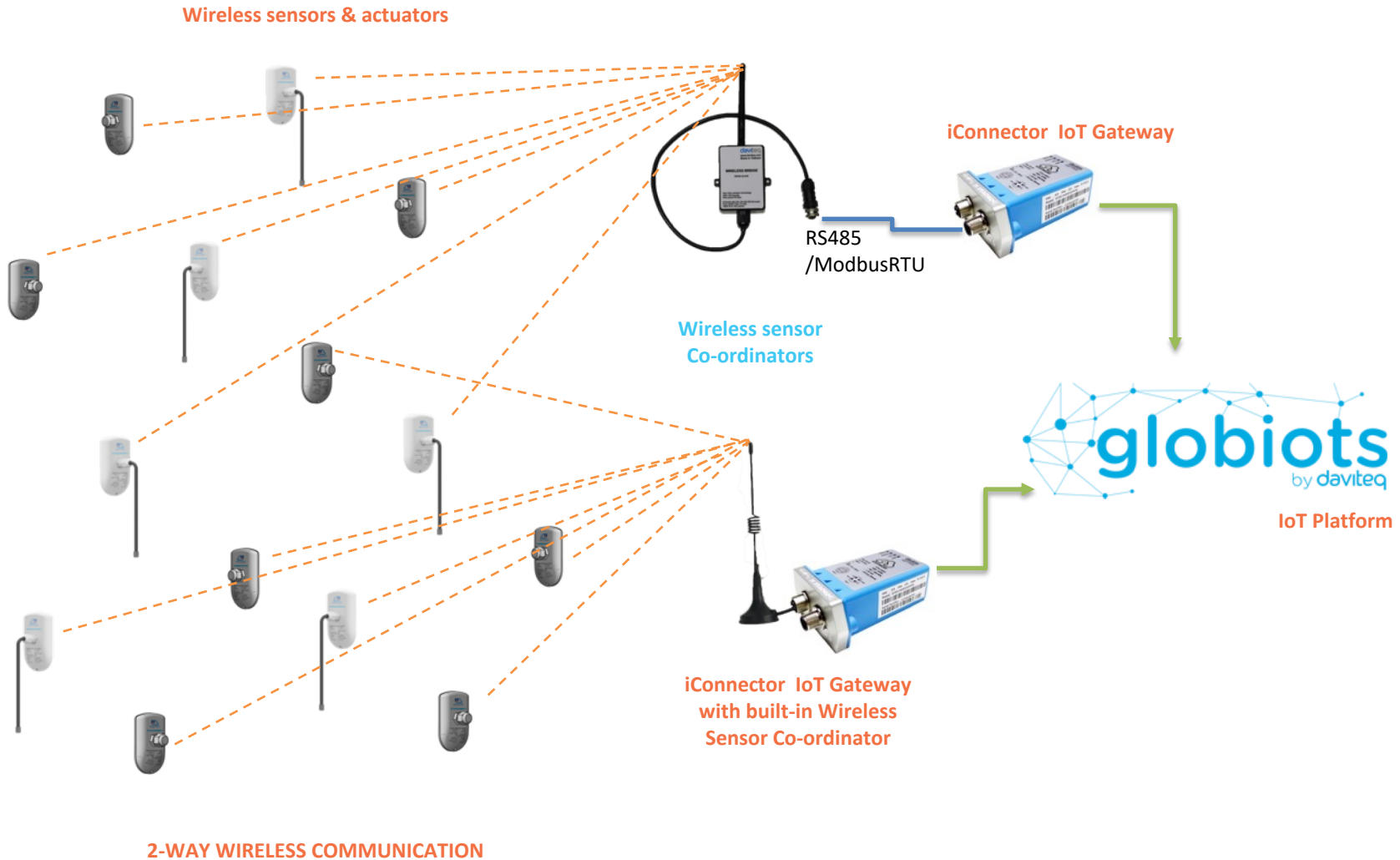
Contents

1. WIRELESS SENSOR & ACTUATOR NETWORKS

Wireless sensors & actuators

Any PLC or Controller

RS485 /ModbusRTU

Wireless sensor Co-ordinators

Any HMI support Modbus RTU

Any SCADA software support ModbusRTU

RS485 /ModbusRTU

Any IoT Platform

IoT Gateway

2-WAY WIRELESS COMMUNICATION

Wireless sensors & actuators

iConnector IoT Gateway

RS485
/ModbusRTU

Wireless sensor
Co-ordinators

IoT Platform

iConnector IoT Gateway
with built-in Wireless
Sensor Co-ordinator

2-WAY WIRELESS COMMUNICATION

3. FEATURES OF WIRELESS SENSORS

TYPE OF MEASUREMENTS & CONTROLS

TEMPERATURE	HUMIDITY	PRESSURE	ANALOG SIGNAL	DIGITAL SIGNAL	AC CURRENT

Built-in digital Temperature sensor with cable for measuring Environment temperature

Accept RTD or Thermoucouples inputs for measuring Process or Machine temperature

Built-in digital relative Humidity sensor for measuring Environment Humidity.
Optional sensor with cable

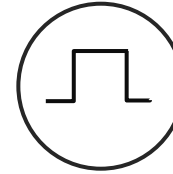Built-in digital Differential Pressure Sensor for measuring Room Pressure for CLEAN ROOM

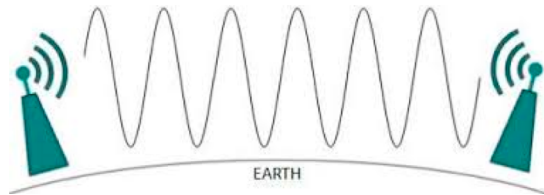02-Channel Analog Input 0..10VDC or 4..20mA for any Sensors, Process Instrumentations

02-Channel dry-contact Digital input for detecting Logic / Counting OR RELAY outputs for controls

01-Channel 5A AC Current Measurement for Power Monitoring

LONG RANGE
Up to 400 m Line of Sight, depends on
data rate and height of Antenna

5-Year BATTERY
On a single CR2032 battery, depends on configuration

Up to 50 kps DATA RATE

Sub-1GHz
Robustness, long range

TECHNOLOGY TEXAS INSTRUMENTS

COMPLIANCE TO

ETSI EN 300 220, EN 303 204 (Europe)
FCC CFR47 Part15 (US)
ARIB STD-T108 (Japan)

SECURITY

**CONFIGURATION
VIA MODBUS**

4. PRODUCT LIST

1. Wireless sensors – IP40 Version & Cellular type Sensor

No.	Item code	Description	Availability	Applications	Product Photo
1.1	WS433-TE-01	Wireless ambient temperature sensor, IP67 sensor head, IP40 housing, -10 .. + 60oC, CR2032 battery	In production	To monitor ambient temperature	
1.2	WS433-TH-01	Wireless ambient relative humidity & temperature sensor, IP40 housing, -10 .. + 60oC, CR2032 battery	In production	To monitor ambient humidity/temperature	
1.3	WS433-DP-01	Wireless Differential Pressure Sensor, +/- 125 Pa, 3.0% Reading accuracy, IP40 housing, -10 .. + 60oC, CR2032 battery	In production	To monitor the positive pressure of clean rooms in semiconductor, pharmaceutical, medical, food industry…	
1.4	STHC-ISG01-T1	iConnector GPRS, internal antenna, with 01 x ambient temperature sensor, 2000mAh rechargeable LiPo battery, 220VAC charger, IP67 rated	In production	To monitor ambient temperature of carrying case, portable fridge… in medical, food industry	
1.5	STHC-ISG01-TH1	iConnector GPRS, internal antenna, with 01 x ambient humidity sensor, 2000mAh rechargeable LiPo battery, 220VAC charger, IP67 rated (except sensor head)	In production	To monitor ambient humidity/temperature of carrying case, portable fridge… in medical, food industry	

4. PRODUCT LIST

2. Wireless sensors & actuators – IP67 Version

No.	Item code	Description	Availability	Applications	Product Photo
2.1	WS433-MA-12	Wireless 2-channel 0..20mA/0-10VDC current input Sensor, IP67, AA 1.5V battery, PG13.5 Conduit/Cable gland with 0.5m cable	Q4/2018	To monitor current/voltage output of Process Instrumentation (Flow, Level, Pressure, Temperature, pH, Conductivity…)	
2.2	WS433-DI-12	Wireless 2-channel Digital input Sensor, IP67, AA 1.5V battery, PG13.5 Conduit/Cable gland with 0.5m cable	Q4/2018	To monitor the logic status or counting for a switch, button or digital output of a machine	
2.3	WS433-RTD-11	Wireless 1-channel Pt100/Pt1000 RTD sensor, AA 1.5V battery, PG13.5 Conduit/Cable gland with 0.5m cable	Q4/2018	To monitor the temperature value from RTD sensor	
2.4	WS433-TC-11	Wireless 1-channel thermocouples sensor, AA 1.5V battery, PG13.5 Conduit/Cable gland with 0.5m cable	Q4/2018	To monitor the temperature value from thermocouples sensor	
2.5	WS433-AC-11	Wireless 1-channel AC current sensor, max 5A, IP67, AA 1.5V battery, PG13.5 Conduit/Cable gland with 0.5m cable	Q4/2018	To monitor the AC current load of a machine, motor…	
2.6	WS433-RL-14	Wireless 4-channel Relay output SPST, 0.5A@125VAC/1.0A@30VDC contacts, IP67, 8..50VDC supply, PG13.5 Conduit/Cable gland with 0.5m cable	Q4/2018	For remote control of pump, valve, motor, door…	
2.7	WS433-RL-12	Wireless 2-channel Relay output SPDT, 5.0A@250VAC contacts, IP67, 8..50VDC supply, PG13.5 Conduit/Cable gland with 0.5m cable	Q4/2018	For remote control of pump, valve, motor, door…	

2. Wireless sensors & actuators – IP67 Version (Con't)

No.	Item code	Description	Availability	Applications	Product Photo
2.8	WS433-TE-11	Wireless ambient integrated temperature sensor, -40 .. + 85 oC, IP67, AA 1.5V battery	Q4/2018	To monitor ambient temperature	
2.9	WS433-TE-12	Wireless ambient 300mm cable temperature sensor, -40 .. + 85 oC, IP67, AA 1.5V battery	Q4/2018	To monitor ambient temperature, remote type sensor	
2.10	WS433-TH-11	Wireless ambient integrated humidity/temperature sensor, -40 .. + 85 oC, IP67, AA 1.5V battery	Q4/2018	To monitor ambient humidity/temperature	
2.11	WS433-DP-11	Wireless differential pressure sensor, +/- 125 Pa, 3.0% Reading accuracy, -40 .. + 85oC, IP67, AA 1.5V battery	Q4/2018	To monitor the positive pressure of clean rooms in semiconductor, pharmaceutical, medical, food industry…	

4. PRODUCT LIST

3. Wireless sensor Co-ordinators & IoT gateways

No.	Item code	Description	Availability	Applications	Product Photo
3.1	WR433-03	Wireless Sensor Co-ordinator with external antenna 5 dbi, 0.5m cable M12-Female connector, 4-pin, coding A, RS485 ModbusRTU	In production	To work with PLC, HMI, SCADA, IoT Gateway… via RS485/Modbus RTU	
3.2	STHC-ISG02DB/WR433-02	iConnector 3G Dual Band, internal antenna, built-in wireless sensor co-Ordinator, external antenna 5 dbi, power adapter 220VAC EU Plug	In production	This IoT gateway with build-in wireless sensor co-ordinator to work with Globiots IoT Platform	
3.3	STHC-ISG02DB-NC	iConnector 3G Dual Band, internal antenna, with 02 relays, no M12 cables	In production	This IoT Gateway is 3G type, work with Globiots IoT platform, can connect to WR433-03 or any device with RS485/Modbus RTU	
3.4	STHC-ISG02-NC/GPS	iConnector 3G Penta Band, internal antennas, with 02 relays, no M12 cables, with GPS	In production	Same as item 3.3, but with GPS functions	
3.5	STHC-ISGWF	iConnector WiFi, internal antenna, with 02 relays, additional M12-Male RS485 Port, no M12 cables	In production	Same as item 3.3, but Host connection is WiFi, instead of 3G	
3.6	STHC-ISGETH	iConnector Ethernet, with 02 relays, additional M12-Male RS485 Port, no M12 cables	In production	Same as item 3.3, but Host connection is Ethernet, instead of 3G	
3.7	PWR-24-125-1	3W/24VDC Power adapter, Din-rail type, input 85-264VAC, for wireless bridge or other low power devices	In production	This is tiny low load, din rail type power supply for WR433-03 or WS433-RL-XX	
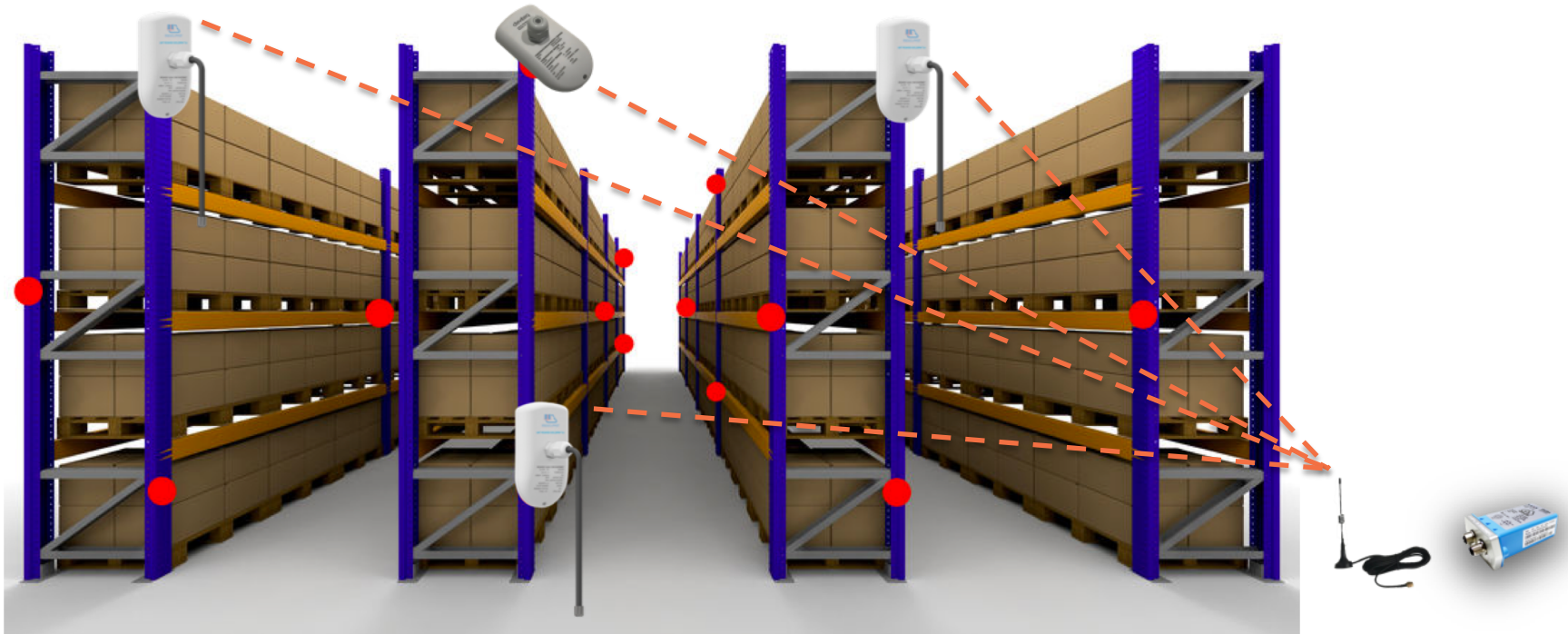
Using wireless sensor tag with internal antenna

Ordering code: WS433-TE-01 or WS433-TH-01

Using the following devices to receive data from wireless sensors:

1- Wireless sensor Co-ordinator with RS485 output, connect to PLC, PC or IoT Gateway;

OR

2- IoT Gateway with built-in RF Receiver

Cellular Temperature sensor is placed inside the box

8 days for single charge!

Using an IoT gateway with built-in temperature/humidity sensor with LiPo battery.

Ordering code: STHC-ISG01-T1 or STHC-ISG01-TH1

NOTES:
- The box must be made from non-metal material or half metal & half non-metal so that the RF signal can go through;
- If the box was made from metal then the IoT Gateway would be placed outside, but the sensor head is inside (select the one with extension sensor head).

iConnector 3G Dual Band with
integrated Wireless Sensor Co-ordinator

Using Wireless relay output module for Remote controls of Irrigation

WS433-RL-14 : 04 relays

WS433-RL-12: 02 relays

- Relay output will controls the pump/valve;
- Power supply: external power supply from Solar panel or Grid

Wireless Humidity/Temperature Sensor

WS433-TH-01

Wireless Differential Pressure Sensor

WS433-DP-01

SEMICONDUCTORS

PHARMACEUTICAL

MEDICAL

FOOD …

iConnector 3G Dual Band with integrated Wireless Sensor Co-ordinator

6. PRODUCT SPECIFICATION

Specification:

- Sensor probe: Digital type, factory calibrated, IP67, cable length 150mm. Sensor probe can be immersed in ice water for quick validation
- Sensor measuring range: -40°C to 85°C
- Accuracy: +/- 0.5°C
- Resolution: 0.125°C
- Wireless speed: Max 50kbps;
- Distance, LOS: 400m
- Antenna: 3 dbi internal antenna;
- Battery: 01 x CR2032, working time 2..5 years (depends on configuration)
- Frequency: 433Mhz, Sub-1GHz technology from Texas Instrument;
- Receiving sensitivity: -110dBm at 50kbps
- Transmit power: : 14dBm, 25mW
- RF Compliance:
     ETSI EN 300 220, EN 303 204 (Europe)
     FCC CFR47 Part15 (US)
     ARIB STD-T108 (Japan)
- Security: AES-128
- Electronics working temperature: -10°C..+60°C (with battery CR2032 installed)
- Housing: ABS plastic, IP40;
- Dimension: 100x58x11mm (electronics housing only);
- Installation method: 3M double sided tape (included)
- Net Weight: < 70g
- Package dimension: 110x90x70mm
- Gross Weight: 94g

WS433-TE-01

Ordering code

WS433-TE-01	Wireless ambient temperature sensor, IP67 sensor head, IP40 housing, -10 .. + 60oC, CR2032 battery

6. RELATIVE HUMIDITY WIRELESS SENSOR – WS433-TH

WS433-TH-01

Specification:

- Sensors: RH Digital type, factory calibrated, with built-in temperature sensor
- RH measuring range: 0 .. 100 %RH
- RH Accuracy: +/- 2.0%
- RH Resolution: 0.1%
- Temperature measuring range: -40 .. + 85 oC
- Temperature accuracy: +/- 0.2 oC
- Temperature resolution: 0.1 oC
- Wireless speed: Max 50kbps;
- Distance, LOS: 400m
- Antenna: 3 dbi internal antenna;
- Battery: 01 x CR2032, working time 2..5 years (depends on configuration)
- Frequency: 433Mhz, Sub-1GHz technology from Texas Instrument;
- Receiving sensitivity: -110dBm at 50kbps
- Transmit power: : 14dBm, 25mW
- RF Compliance:
  - ETSI EN 300 220, EN 303 204 (Europe)
  - FCC CFR47 Part15 (US)
  - ARIB STD-T108 (Japan)
- Security: AES-128
- Working temperature: -10°C..+60°C (with battery CR2032 installed)
- Housing: ABS plastic, IP40;
- Dimension: 100x58x11mm (electronics housing only);
- Installation method: 3M double sided tape (included)
- Net Weight: < 70g
- Package dimension: 110x90x70
- Gross Weight: 84g

Ordering code

WS433-TH-01	Wireless ambient relative humidity & temperature sensor, IP40 housing, -10 .. + 60oC, CR2032 battery

6. DIFFERENTIAL PRESSURE WIRELESS SENSOR – WS433-DP

WS433-DP-01

Specification:

- Sensors: Differential Pressure, factory calibrated, with temperature compensation
- DP measuring range: +/- 125 Pa
- DP Accuracy: +/- 3.0% of Reading
- DP Resolution: 0.1 Pa
- Working compensated temperature: -20 .. 85 oC
- Wireless speed: Max 50kbps;
- Distance, LOS: 400m
- Antenna: 3 dbi internal antenna;
- Battery: 01 x CR2032, working time 2..5 years (depends on configuration)
- Frequency: 433Mhz, Sub-1GHz technology from Texas Instrument;
- Receiving sensitivity: -110dBm at 50kbps
- Transmit power: : 14dBm, 25mW
- RF Compliance:
    ETSI EN 300 220, EN 303 204 (Europe)
    FCC CFR47 Part15 (US)
    ARIB STD-T108 (Japan)
- Security: AES-128
- Working temperature: -10ºC..+60ºC (with battery CR2032 installed)
- Housing: ABS plastic, IP40;
- Dimension: 100x58x11mm (electronics housing only);
- Installation method: 3M double sided tape (included)
- Net Weight: < 70g
- Package dimension: 110x90x70
- Gross Weight: 84g

Ordering code

WS433-DP-01	Wireless Differential Pressure Sensor, +/- 125 Pa, 3.0% Reading accuracy, IP40 housing, -10 .. + 60oC, CR2032 battery

6. WIRELESS SENSOR CO-ORDINATOR WITH RS485 / MODBUS RTU

WR433-03

➡ **Connect to PLC/HMI**

➡ **Connect to PC/SCADA**

➡ **Connect to IoT gateway**

Specification:
- Functions: receive data from wireless sensor tags, send configuration to sensor tags;
- Connect up to 30 wireless sensor tags;
- Output: RS485/modbusRTU, max 19200 baud
- Max wireless data speed: Max 50kbps;
- Max LOS distance: 400m
- Antenna: external antenna 5 dbi with 1m cable, with magnet and double-side 3M tape for mounting;
- Power supply: 12..24 VDC, max 100mA
- Frequency: 433Mhz, Sub-1GHz wireless technology from Texas Instrument;
- Receiving sensitivity: -110dBm at 50kbps
- Transmit Power: : 14dBm, 25mW
- Global Frequency compliance:
  - ETSI EN 300 220, EN 303 204 (Europe)
  - FCC CFR47 Part15 (US)
  - ARIB STD-T108 (Japan)
- Security: AES-128
- Working temperature: -40°C..+85°C
- Rating: IP54;
- Housing material: ABS, POM
- Dimension: 80x56x22mm;
- Weight: < 200g
- Configuration by Modbus Master software on PC or Modbus commands

Ordering codes

WR433-03	Wireless Sensor Co-ordinator with external antenna 5 dbi, 0.5m cable M12-Female connector, 4-pin, coding A, RS485 ModbusRTU

6. CELLULAR iConnector WITH BUILT-IN WIRELESS CO-ORDINATOR

Specification:

- Host connection: GPRS Quad-band
- Antenna GPRS: internal
- Functions: Data logger + Logic controller + Gateway;
- Built-in wireless sensor co-ordinator to connect to wireless sensors and actuators. Come with 5 dbi external antenna;
- EEPROM memory: 1.7MB (= 140,000 records of measurement)
- Back-up LiPo battery: 630mAh
- Rating: IP67
- Material: Poly-carbonate plastic, anodized A6061 aluminum
- Working temperature: -20 .. + 60 oC
- Dimension: 110x75x40mm
- Weight: <= 200g

Ordering code

STHC-ISG02DB/WR433-02	iConnector 3G Dual Band, internal antenna, built-in wireless sensor co-Ordinator, external antenna 5 dbi, power adapter 220VAC EU Plug

iConnector is a IoT gateway, a part of Globiots Industrial internet of things platform. It is a combination of 3-in- 1 device, logic controller, data logger and gateway.

iConnector
A smart way to connected era

5 dbi external antenna

Wireless sensor Co-ordinator

RS485 / Modbus RTU

HIGHLIGHT FEATURES

- Out-of- box Industrial Smart IoT Gateway
- Logic controller +Data logger +Gateway
- No need programming, just configuration
- Support various Fieldbus protocol: ModbusRTU, ModbusTCP, Profinet, EthernetIP, CClink...

Modbus   EtherNet/IP   CC-Link   PROFINET

- Support Sub-Ghz wireless sensor network
- Various host communication: GPRS, 3G, LTE Cat 4, LTE Cat M1, LTE NB-IoT, WiFi, Ethernet

Cellular Version   Wifi Version   Ethernet Version

Specification

▸ Cellular Version

	STHC-ISG01	STHC-ISG02	STHC-ISG02DB
Host Communication	Embeded 2G GSM Modem / GPRS or SMS Quad Band 850/900/1800/1900	Embeded 3G GSM Modem / GPRS or SMS Penta band B1 (2100), B2 (1900), B5 (850), B6 (850 japan) , B8 (900), B19 (800 japan)	Embeded 3G GSM Modem / GPRS or SMS Dual band B1 (2100), B8 (900)
Design	Ultra Low Power		
IP	IP67		
Operating temperature	-20 .. +60		
Slave Communication	RS485/Modbus RTU, 31 nodes. Max speed 19.2 kbps		
Power Supply	7..48VDC, max 1.5A		
Back-up battery	Li-Po 600mAh		
Internal Logging Memory	2MB EEPROM		
Built in sensors	Temperature		
Connector	M12, 4-pin, IP67		
SIM Slot	Micro-SIM		
Included Accessory	M12 connector cable, mounting bracket		
Dimension	L106 x W73 x H42		
Weight	190 gr		
Operating Humidity	up to 95%RH, non-condensing		
Shock and Vibration	ETSI EN 300 019-2-2. V2.3.1		
GPS	Option: with integrated GPS (accuracy =<5m)		
Relay	Option: with output 2 relay Normal Open. 125VAC, 0.3A 24VDC, 1A		

▸ Wifi Version

Wifi	802.11 b/g/n, 2.4GHz
3G Dual Band	Embeded 3G GSM Modem / GPRS or SMS Dual band B1 (2100), B8 (900)
RF 433GHz Receiver	External Antenna 3dBi Option: Internal Anteena 5dBi Range maximum 400 Outdoor , 80m Indoor (5dBi option)
Design	Ultra Low Power
IP	IP54
Operating temperature	-20 .. +85 degC
Slave Communication	RS485/Modbus RTU, 31 nodes. Max speed 19.2 kbps
Power Supply	9..48VDC, max 1.5A
Built in sensors	Temperature
Connector	M12, 4-pin, IP67
Included Accessory	M12 connector cable, mounting bracket
Dimension	L130 x W90 x H40
Weight	350 gr
Operating Humidity	up to 95%RH, non-condensing
Shock and Vibration	ETSI EN 300 019-2-2. V2.3.1
Relay	Option: with output 2 relay Normal Open. 125VAC, 0.3A 24VDC, 1A

▶ *Ethernet Version*

Ethernet	RJ45 Port, 10 Mbps
3G Dual band	Embeded 3G GSM Modem / GPRS or SMS Dual band B1 (2100), B8 (900)
RF 433GHz Receiver	External Antenna 3dBi Option Internal Anteena 5dBi Range maximum 400 Outdoor , 80m Indoor (5dBi option)
Design	Ultra Low Power
Ingress Protection	IP40
Operating temperature	-20 .. +85 degC
Slave Communication	RS485/Modbus, 31 nodes. Max speed 57.6 kbps
Host Communication / Protocol	TCP/IP
Power Supply	, max 1.5A
Internal Logging Memory	2MB EEPROM
Built in sensors	Temperature
Connector	M12, 4-pin, IP67
Dimension	L130 x W90 x H40
Weight	350 gr
Operating Humidity	Up to 95%RH, non-condensing
Shock and Vibration	ETSI EN 300 019-2-2. V2.3.1

Functions

iConnector is a combination of 3-in-1 device:

LOGIC CONTROLLER + DATA LOGGER + GATEWAY.

Logic Controller Function
Process up to 28 alarms, with 4 alarm levels: HiHi, Hi, Lo, LoLo and Hysterisis for 1 alarm level
Process over 20 events
Alarm thresholds and event configurations will be configured remotely from Web
Alarm and event will be notified back to server
From server, the alarm and event notifications will be pushed to client via web, sms and email
Integrated Relay outputs (optional): Relay status can be configured remotely via web-interface. Relay do NOT operate when power supply is off
Data Logger Function
Log up to 64 parameters
Log up to 20 events and/or 28 Alarm
Log health condition of iConnector: Power Supply, Battery, Temperature, GSM quality…
Configure log frequency, time to live for each parameter remotely from web
Logged data will be stored in built-in FIFO buffer (non-volatile memory) before sending back to server for storing in Database.
Use handshaking process for server communication to ensuare no loss of logged data in case of missing 3G/GPGS/SMS/Wifi
Send logged data server through 2G/3G/Wifi/Ethernet
Realtime 2-way real server
Gate Way Function
Keep connecting to Platform via Cellular , Wifi or Ethernet
Convert communication protocols support: Modbus RTU, Modbus TCP, Profinet, EthernetIP, Cclink
Transparency tunneling

Ordering code

STHC-ISG02DB-NC	iConnector 3G Dual Band, internal antenna, with 02 relays, no M12 cables
STHC-ISG02-NC/GPS	iConnector 3G Penta Band, internal antennas, with 02 relays, no M12 cables, with GPS
STHC-ISGWF	iConnector WiFi, internal antenna, with 02 relays, additional M12-Male RS485 Port, no M12 cables
STHC-ISGETH	iConnector Ethernet, with 02 relays, additional M12-Male RS485 Port, no M12 cables

6. CELLULAR TEMPERATURE/HUMIDITY SENSOR

8 days for single charge!

Specification:

- Host connection: GPRS Quad-band
- Antenna GPRS: internal
- Functions: Measure 1 channel of temperature or humidity, stored in EEPROM and sending to server, Alarm/Event processing;
- Integrated temperature sensor: accuracy +/- 0.5 degC in range -20 .. + 60 oC
- Or integrated humidity sensor: accuracy +/- 2% RH in range 0..95% RH
- EEPROM memory: 1.7MB (= 140,000 records of measurement)
- LiPo battery: 2000mAh, working upto 8 days (with 2 minutes data logging and 15 minutes data sending)
- Rating: IP67
- Material: Poly-carbonate plastic, anodized A6061 aluminum
- Working temperature: -20 .. + 60 oC
- Dimension: 110x75x40mm
- Weight: <= 200g

Ordering code

STHC-ISG01-T1	iConnector GPRS, internal antenna, with 01 x ambient temperature sensor, 2000mAh LiPo rechargeable battery, 220VAC charger, IP67 rated
STHC-ISG01-TH1	iConnector GPRS, internal antenna, with 01 x ambient humidity sensor, 2000mAh LiPo rechargeable battery, 220VAC charger, IP67 rated (except sensor head)

1. Choose wireless sensor type to suite application, please refer to the List of wireless sensors;

Select 433MHZ wireless sensors

OR Cellular type battery operated sensors

2. Define the location of each sensor on the layout of your building/factory to specify the distance between sensors and Co-ordinator. If the distance is out of range of sensors, please install additional Co-ordinator;
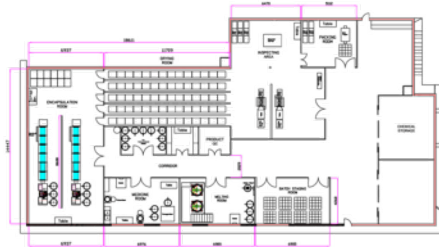
3. Please make sure Co-ordinator can connect to your Host devices (PLC, HMI, PC, IoT Gateway… any device have RS485/ModbusRTU master);

Select Co-Ordinator
OR iConnector with built-in Co-ordinator

7-STEP TO BUILD A WIRELESS SENSOR NETWORK

4. Ordering the sensors and co-ordinators;

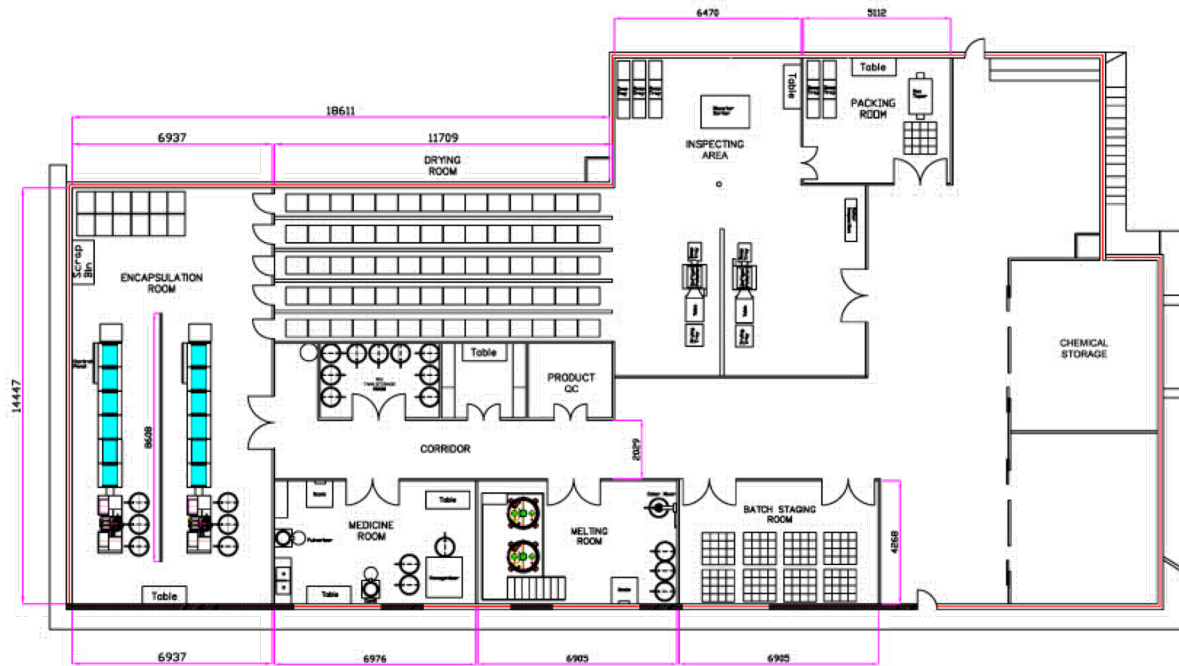**Công ty TNHH TB ĐL & ĐK Đại Việt**
Email: info@daviteq.com
ĐT1: 0906.88.58.58 – Mr. Lộc
ĐT2: 0903.89.83.04 – Mr. Lực
ĐT3: 0903.79.14.47 – Mr. Hữu

5. Install the sensors and Co-ordinators at pre-defined location;

6. Configure the Co-ordinator to accept the connections from wireless sensors. There are 02 ways:
   - Using Globiots software to configure (in case Co-ordinator connect with iConnector or using iConnector with built-in Co-ordinator);

   Just log in to the web: https://vizuo.globiots.com

   To configure the Wireless sensor Co-ordinator

   - OR using any Modbus Tool Software + Configuration cable to configure the Co-ordinator

   Connect this cable to Co-Ordinator and a Computer

   Modbus Tool free software can be downloaded from Internet

7. After configuration, insert battery to sensor, then sensor will connect and transmit data to Co-ordinator;

   Insert the battery into wireless sensor

Collect **DATA** and turn it to useful **INFORMATION**

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