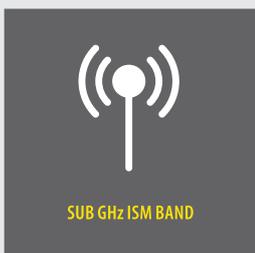


# LONG RANGE WIRELESS COMMUNICATION



# Long Range — Wireless Communication



## ISM FEATURES



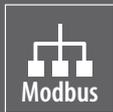
SUB GHz  
ISM BAND



LONG DISTANCE  
WIRELESS  
COMMUNICATION



MOBILE APP  
Easy setup  
with mobile app  
and dongle



MODBUS/RTU  
INTERFACE

## DESCRIPTION

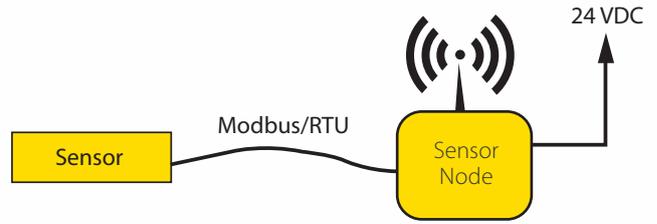
Wireless communication can simplify the connection of sensors in industrial applications or sometimes provide the only solution to connect from one building to another. Reducing the cable connection results in reduced costs. SUTO offers solutions for wireless sensors connectivity to concentrators (for example S 330 display) as well as gateways to ISM servers.

The gateways communicate to the ISM server through the integrated Ethernet or 4G modem. The SUTO data acquisition and analyzes software S4M collects the sensor data from the MQTT server, stores it in a database and offers various data analyzes and reporting. Thus providing a complete IIoT solution.

For commissioning and network setup a ISM dongle can be used. The dongle is connected to the USB port of the mobile phone and comes with an Android APP for network test ISM dongle and settings.

## SENSOR NODE FEATURES

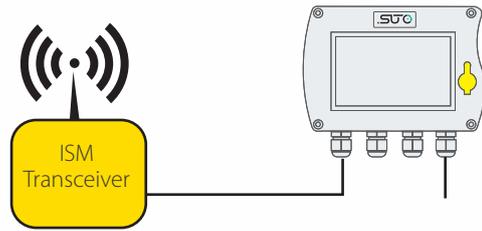
- Can reach up to 1000 m distance
- Connectable to any Modbus/RTU sensor
- Only need 24 VDC power
- Connects to either a ISM Gateway or ISM Transceiver
- Transmits sensor data in programmable interval (1 minute to 1 hour)
- Economic and easy to use



Modbus-Sensor connected to a sensor Node

## ISM TRANSCEIVER FEATURES

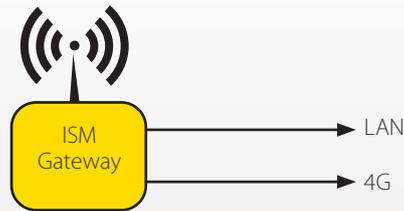
- Can reach up to 1000 m distance
- Connectable to any Modbus/RTU Master
- Communicates with up to 16 ISM Nodes



ISM Transceiver connected to a SUTO display or a Modbus Master

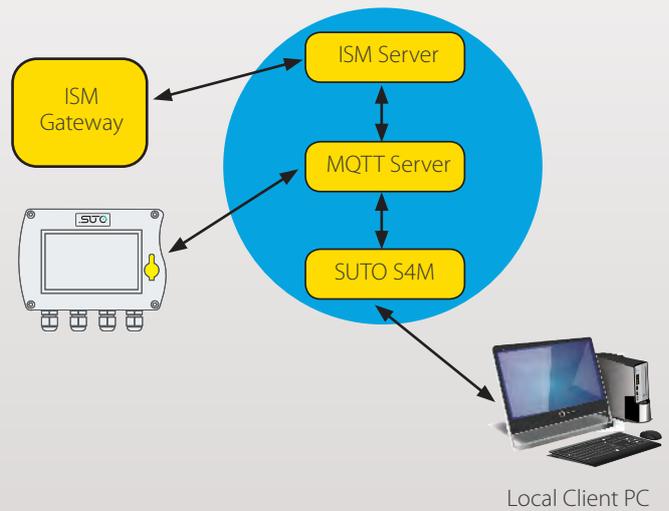
## ISM GATEWAY FEATURES

- 4G and Ethernet connection
- Communicates with up to 32 Sensor Nodes
- Robust industrial design for in- and outdoor applications



## APPLICATION SOFTWARE S4M

- Local or Cloud installation
- Supports IIoT through MQTT
- Powerful graphic analyzes
- Browser based applications
- Consumption / Energy reporting
- Multi-user



# ISM FREQUENCIES

General Specifications		
Code	Region	Band
0	China	470M
1	Europe	868M
2	Asia	923M
3	US, Canada	915M
4	India	865M

## ORDERING

Please use the following table to assist in placing your order with our sales staff.



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[www.suto-itec.com](http://www.suto-itec.com)  
[sales@suto-itec.com](mailto:sales@suto-itec.com)

ISM		
Order No.	Code	Description
A554 012X	0-4	ISM Sensor Node, 2m cable open ends, M12 connector, wall mountable
A554 013X	0-4	ISM Transceiver, 2m cable open ends, wall mountable
A554 014X	0-4	ISM Gateway, 4G, Ethernet port, robust industrial design
A554 015X	0-4	ISM Dongle, USB interface, application software

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