

SKU: WS433-B

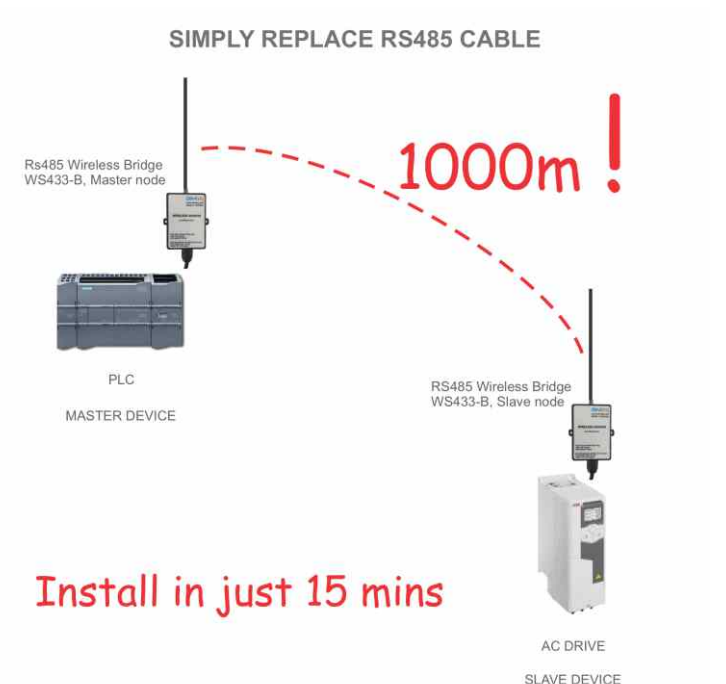
## WIRELESS BRIDGES WS433-B



WS433-B-H1.PNG

WS433-B (old name is WB433) are the wireless bridge devices for wirelessly transparent data communicating among the node, instead of using cables with RS485 ports, it utilizes the Sub-Ghz technology from Texas Instruments. Wireless bridges will help to save material cost, time & labour cost to establish a RS485 network with highest reliability. The installation will be done easily in just half of hour.

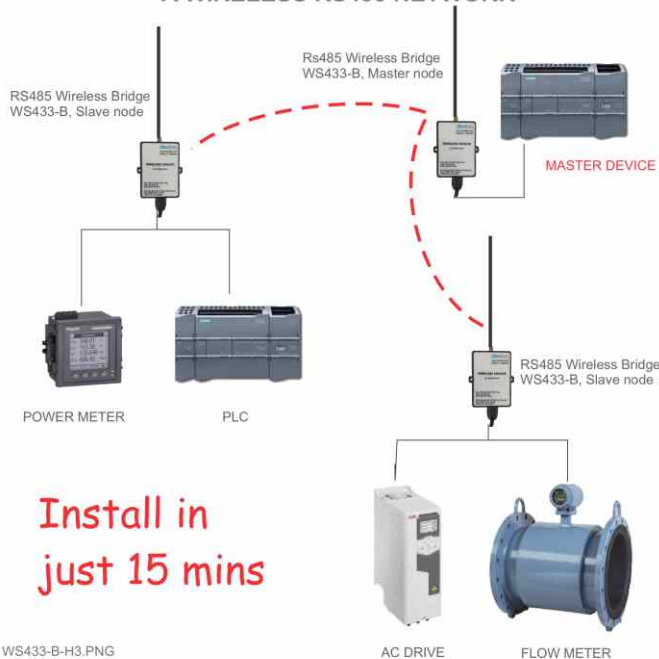
- ✔ **RELIABLE & SECURED WIRELESS CONNECTION**  
 Sub-Ghz technology from Texas Instruments allows reliable wireless connection and secured data by AES-128
- ✔ **LONG RANGE TRANSMISSION**  
 Narrow Band techniques & Sub-Ghz technology allow long distance transmission at lowest energy consumption
- ✔ **ANY KIND OF PROTOCOLS**  
 Allow any kind of protocols on RS485 network
- ✔ **SIMPLE CONFIGURATION**  
 Easily configure via off-line software or online software on Globiots platform



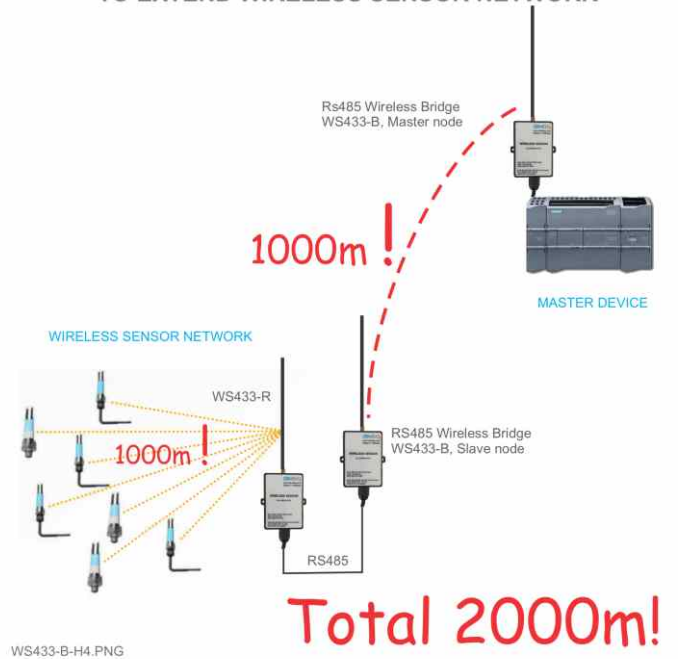
### SPECIFICATION

Electrical connector	M12-female, 4-pin A-coding
Data speed	Up to 50kbps (supports Baud rate up to 38400)
Transmission distance	LOS 1000m @ 50 kpbs (antenna height is 4m minimum)
Antenna	External Antenna
Power supply	7..48 VDC
Frequency Band	ISM 433Mhz, Sub-GHz technology from Texas Instrument, USA
Ready for International Compliance	ETSI EN 300 220, EN 303 204 (Europe) FCC CFR47 Part15 (US), ARIB STD-T108 (Japan)**
Vietnam Type Approval Certification	QCVN 73:2013/BTTTT, QCVN 96:2015/BTTTT (DAVITEQ B00122019)
Security Standard	AES-128
Operating temperature	-40oC..+85oC
Housing	ABS plastic, IP54
Installation method	Wall mounting by 4.00mm diameter screws (supplied by user)
Product dimension	W57 x D81 x H28 mm
Box dimension	W160 x D150 x H100 mm
Gross weight	< 200g

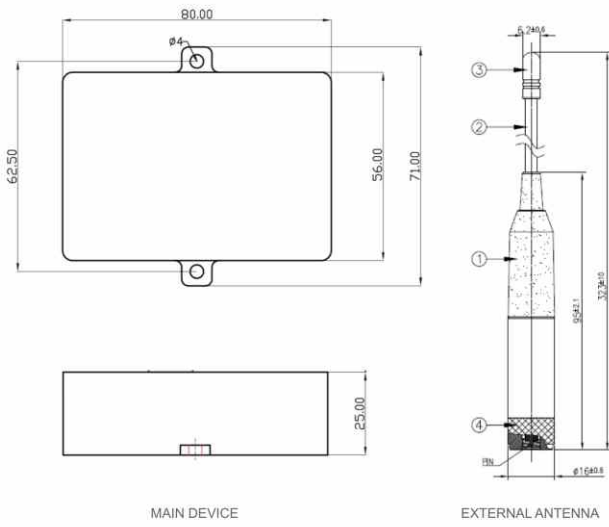
#### A WIRELESS RS485 NETWORK



#### TO EXTEND WIRELESS SENSOR NETWORK



DIMENSION DRAWINGS OF WIRELESS BRIDGES



WS433-B-H5.PNG

USB-RS485 CONFIGURATION CABLE



WS433-B-H6.PNG

**ORDERING INFORMATION**

WS433-B-RS485-M2	Wireless Bridge RS485 Master with external antenna 0 dbi, with 0.5 m cable and M12-Female connector
WS433-B-RS485-S2	Wireless Bridge RS485 Slave with internal antenna 0 dbi, with 0.5 m cable and M12-Female connector

**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
2M-MM12CAB4x0.25	M12 4pin Male assembly connector with Soldering terminals and coding A and Control Cable Cu/PVC/OS/PVC 4x0.25mm2, L=2m, Rohs, Shield 80%
5M-MM12CAB4x0.25	M12 4pin Male assembly connector with Soldering terminals and coding A and Control Cable Cu/PVC/OS/PVC 4x0.25mm2, L=5m, Rohs, Shield 80%
10M-MM12CAB4x0.25	M12 4pin Male assembly connector with Soldering terminals and coding A and Control Cable Cu/PVC/OS/PVC 4x0.25mm2, L=10m, Rohs, Shield 80%

**NOTES**

* Purchase M12-male cable to power and RS485 connecting for wireless bridges
** Purchase configuration cable RS485-FM12-USB-1 for off-line configuration of wireless bridges