WIRELESS CO-ORDINATOR

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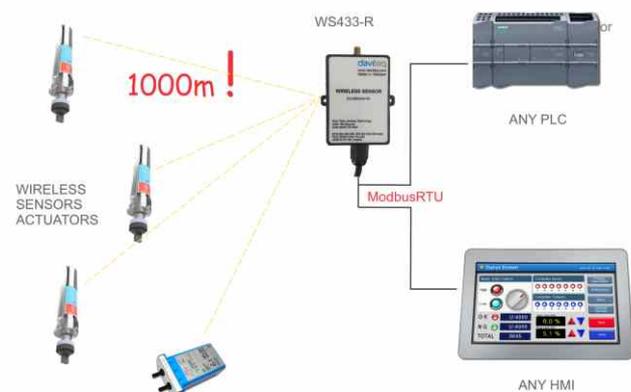
WIRELESS CO-ORDINATOR
WS433-R

1000m LOS

WS433-R-H1.PNG

WS433-R (old name is WR433) is a wireless co-ordinator in a wireless sensor network. It is able to configure the parameters for all end nodes in the network. By the Sub-Ghz technology from Texas Instruments, it is easy to establish multiple networks in same area without interference or channel conflict. One co-ordinator can handle maximum of 40 end nodes in its network.

✓ 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 transmisison at lowest energy consumption

✓ STRONG FUNCTIONS
Allow to configure and diagnostic each sensor node in the network to make sure the highest reliability

✓ SIMPLE CONFIGURATION
Easily configure via off-line software or online software on Globiots platform

CONNECT WIRELESS SENSORS TO any PLC or HMI

WS433-R

1000m !

WIRELESS SENSORS ACTUATORS

ModbusRTU

ANY PLC

ANY HMI

WS433-R-H2.PNG

SPECIFICATION

Electrical connector	M12-female, 4-pin A-coding
Data speed	Up to 50kbps
Tranmission 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

CONNECT WIRELESS SENSORS TO any SCADA or IoT Platform

WS433-R-H3.PNG

CONNECT WIRELESS SENSORS TO GLOBIOTS Platform

WS433-R-H4.PNG

DIMENSION DRAWINGS OF WIRELESS CO-ORDINATOR

MAIN DEVICE   EXTERNAL ANTENNA
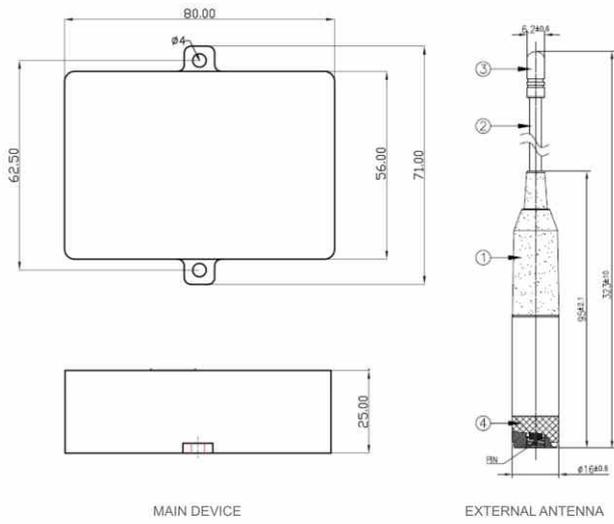
WS433-R-H5.PNG

USB-RS485 CONFIGURATION CABLE

WS433-R-H6.PNG

ORDERING INFORMATION

WS433-R-04	Wireless Sensor Co-ordinator with external antenna 0 dbi, 0.5m cable M12-Female connector, 4-pin, coding A, RS485 ModbusRTUiConnector 3G Dual Band, Ex d, external GSM antenna 2.3 dbi N-male, RS485/ModbusRTU

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 co-ordinator
** Purchase configuration cable RS485-FM12-USB-1 for off-line configuration of wireless co-ordinator