

iGRAIN RADIO - HUB WIRELESS NETWORK

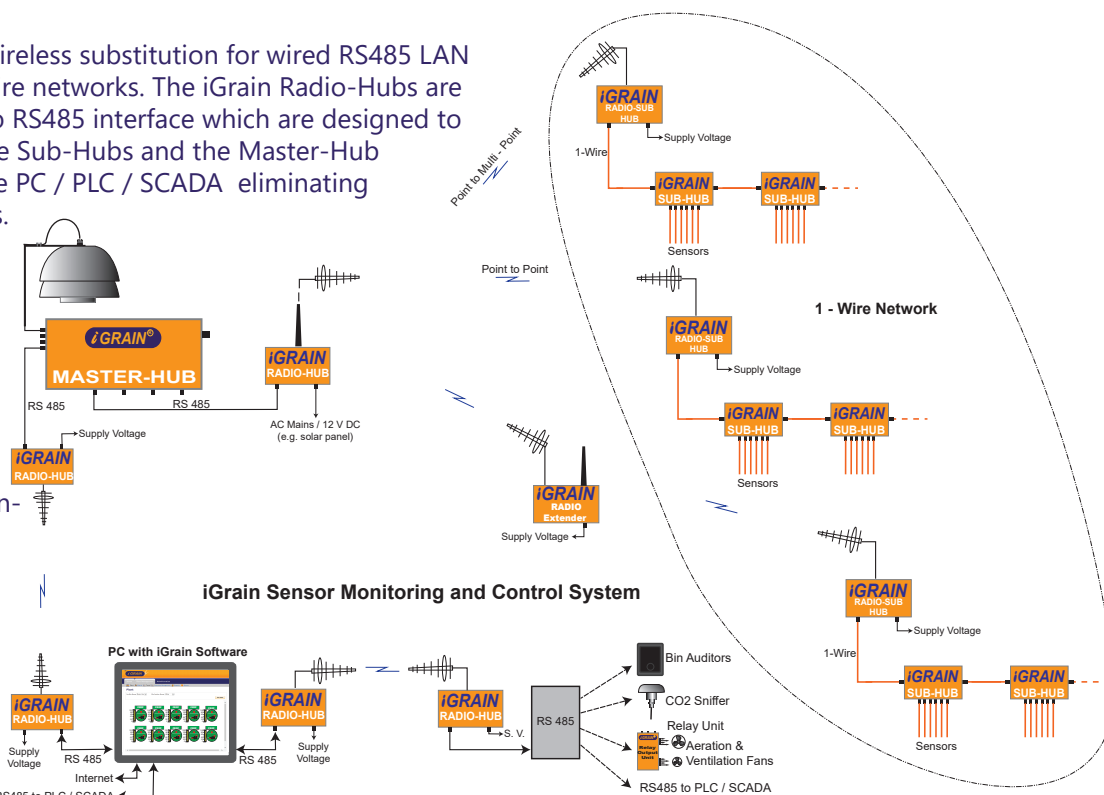


General Description

The iGrain Radio-Hub is a wireless substitution for wired RS485 LAN connections and wired 1-Wire networks. The iGrain Radio-Hubs are a WiFi to 1-Wire and WiFi to RS485 interface which are designed to substitute wires between the Sub-Hubs and the Master-Hub and the Master-Hub and the PC / PLC / SCADA eliminating the need for wired networks.

The Radio-Hub can be configured as Point - to - Point or Point - to - Multi-point networks eliminating the usual wires in a network installation.

Radio-Hub networks can easily be distributed over great distances by implementing Extenders, without having to deal with the challenges associated with the installation of physically large wired networks. The Radio-Hubs comes in various versions for connection to almost all iGrain products such as Master-Hub, Sub-Hub, Sensor Cables, CO2 Sniffers, Relay Output Units and Bin Auditors. The Radio-Hubs can also connect iGrain PC and PC base systems to e.g. existing PLC / SCADA Systems



ADVANTAGES

- Available in the 433, 870 and 900 MHz frequency bands
- Connects to almost all iGrain products
- Automatic configuration without configuration software
- 1-Wire and RS485 compatible
- iGrain and Modbus and many other protocol compatible
- Large range, 305 m / 1000 ft indoor / 6 km / 4 Miles
- Range extendable by Radio Extender
- Reduce network implementation cost
- Simple to install and maintain
- Low Power Consumption
- Can be solar powered



Technical Specifications

Operating frequency:	433 MHz,	900 MHz	870 MHz
Number of Channels:	12	64	64
Transmit Power Output:	20 dBm	20 dBm	20 dBm
Indoor Range (line of sight):	300 m	300 m	300 m
Outdoor Range (line of sight):	up to 6 km	up to 6 km	up to 6 km
Serial Baud Rate Range:	9600 - 230400		
Supply Voltage:	5 or 12 V DC / 110 - 230 V AC		
Current Consumption:	Less than 0,5 A		
Temperature Range:	-25 to + 50°C		