TeamWare
Wireless
Sensor
Network

Wireless sensors network for energy and environmental monitoring

General features

Sensors network that allows to monitor different parameters through a wireless communication:

- Electrical consumption
- Outdoor and/or indoor environmental conditions:
  - Temperature
  - Humidity
  - Illuminance
- AC and DC currents measuring, divided for technology areas:
  - Ced
  - Control room
  - Offices
  - Lighting systems
  - Conditioning systems
  - Free cooling systems
- Remote acquisition and control of other devices equipped with Modbus communication line
- Acquisition of distributed alarms

Technology

- Wireless Sensor Network IEEE 802.15.4-2003 with Stack ZigBee 2007 PRO (EMBER Znet), frequency 2,4GHz
- Battery powered radio sensors with battery life > 2 years
- IesWeb platform integration for collecting, displaying and analyzing energy and environmental data

Available modules

- TWSN-TCP/IP GW: gateway of all measures coming from sensor devices. It communicates with IesWeb server via Ethernet and/or GSM / GPRS / UMTS modem
- TWSN-ZR: TWSN network router
- TWSN-THL: temperature, humidity and illuminance sensor
- TWSN-T: temperature sensor
- TWSN-Hall: sensor for DC current measuring with Hall effect (range 0 ÷ 1000A)
- TWSN-IacR: sensor for AC current measuring with Rogowski coil sensors (range 10 ÷ 1000A)
- TWSN-485: bridge among third-party Modbus devices and TWSN radio network
- TWSN-ES: sensor for acquiring energy pulses emitted by electricty / gas / water meters

TW-TeamWare Srl
Via Pindaro, 19
20128 Milano - Italy
Tel. +39 02 27003261
Fax +39 02 27007753
email tw@teamware.it
web www.teamware.it