

VT3000

Features

- Compact Size
- Designed for use with VT31xx Series Sensors
- USB and RS232 Interface
- USB or Externally Powered
- FCC Part 15 Certification (Pending)
- 916.500 MHz Transmission Frequency
- Other Frequencies Available
- Software Included
- Ethernet Interface (optional)



Description

The VT3000 is a wireless receiver device designed to be used with the VT31xx series of transmitters. The USB or serial interface uses a simple line oriented ASCII-hex protocol that permits easy validation of data through the use of any terminal emulator.

If the USB port is used, no external power is required. Power is supplied by the USB connection. If the serial port is used, external power must be supplied.

The receiver sends two types of messages; a status message every 30 seconds if there are no remote messages being received, a data message specific to the type of transmitter that sent the data. The status message is used to determine if the receiver is working properly.

Applications

The VT3000 is designed for industrial or home use where wireless sensing of temperature, humidity, etc. is required. Examples might be in computer rooms/IT closets where temperature/humidity must be maintained 24/7 for the equipment to operate reliably. Other applications might be within large HVAC ducting to sense potential problems before breakdown occurs.

Specifications (typical)

Description	Specification	Comments
Frequency (MHz)	916.500	
Sensitivity (dBm)	-98 to -100	
Selectivity (dBc)	38 to 40	Clear line of sight
Antenna	Fixed Swivel Mount	
Operating Temperature Range (°C)	-10 to +40	
Operating Humidity (%RH)	0 to 95	Non-condensing
Size (inches)	5.5W x 5.0L x 1.5H	
Transmission Duration (msec)	21	Approximate
Transmission Interval (s)	30	±2s, pseudorandom
Bit Rate (Baud)	9600	104.2us per bit