WellAWARE™ Systems
Empowering Healthcare Communities, Families and You

ZT-RPT433 Repeater for WellAWARE Systems wireless sensors

The repeater resends signals from any WellAWARE Systems sensor or PC attached radio (USB433). The repeater works on two layers, so it will resend a signal that has been send by another repeater, but not one that has been resent by two repeaters. On power on the RPT433 will send Heartbeat signal when you insert the AC adapter in the DC jack. The LED flashes when the repeater resends a signal. If the voltage is lower than 3.8V, the repeater will send "Low Voltage" Signal.

Features
- 100ft wireless range
- 433MHz wireless radio

Requirements
- Line Power
- Mounting Tape

Dimensions: 80 x 60 x 20 mm 3.15 x 2.36 x .79 in

Software Protocol Info:

Device Type: 0x

Command	Data	
0x01	0x0000	HeartBeat (once every 4 hours)
0x02	0x8000	Normal Voltage
	0x0000	Low Voltage
0x03	0x0000	Enrolled Signal
0xFE	Tx' Address	Acknowledgement

770 Harris Street, Charlottesville, VA 22903
Office: 434.872.0700 | www.wellawaresystems.com

The "HearBeat" signal is transmitted every 4 hours when the sensor is in the idle mode.

If ZT-RPT433 receives the RF signal, it will send the ACK signal. Then byte_1 of protocol will be increased “1” and re-send RF signal.

Byte 1							
bit 7	bit 6	bit 5	bit 4	bit 3	bit 2	bit 1	bit 0
RESERVE						Repeater Bits	

If the repeater bits of byte 1 in a received signal are more than 2, the repeater will not retransmit the signal.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:
1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

Note:
1.Any changes of modifications not expressly approved by the grantee of this device could void the user’s authority to operate the equipment.

2.This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.
If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
-- Reorient or relocate the receiving antenna.
-- Increase the separation between the equipment and receiver.
-- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
-- Consult the dealer or an experienced radio/TV technician for help