MAX range Diversity RF Repeater



Our new MAX range Diversity RF Repeater receives radio messages from MAX series MDTs and Repeaters and then retransmits the message with its +28dBm high power radio toward the data collecting DCAP. Our Max Range products use Spread Spectrum technology to triple the range over our standard Range products. All Tehama Repeaters implement a redundant and self-healing 2-way mesh radio network between MDTs and the DCAP. MAX range products are not compatible with our Standard Range products.

Multiple repeaters are used at a site to form an RF network that provides complete RF coverage over the entire property, or to connect separate buildings that may be up to one mile or more apart. Our MAX range system requires about 1 repeater per 100 to 150 MDTs.

MAX range products are installed and commissioned exactly like all previous Tehama products. The same CIT and Mobile App will connect to and commission MAX range DCAPs.

Specifications

Radio	902 – 928 MHz; FCC Certified; +28.5dBm transmit power, Open field range over 10 miles*
LED-Power	Bi-color, indicates Power state: - Green: AC Power good - Red: No AC power but running on capacitor - Off: Off, no power.
LED-Status	Bi-color, indicates Network connection status and Link Quality - Standard slow/fast flash sequence upon power-up - Green: Link Quality > 65 - Orange: LQ between 31 and 64 - Red: LQ between 0 and 30 - Off or flashing red: no connection to network
Dimensions	5.3" x 5.3" x 1.6"
Operating Environment	-10 to 145 degree F, up to 90% RH, non-condensing.
Power	5VDC, 800mA or greater 120VAC wall transformer. Upon loss of power, an alert message is sent to the DCAP.

Continual product enhancements may cause specifications to change without notice.
*Actual range may vary depending on installation location and topography.

Models

For use in **Max Range** systems **		
Max Diversity Repeater	TW-195	Max Range Repeater, includes 5V DC power supply. Identified with Serial # E4xxx, +28.5dBm transmit power.

** Standard and Max Range systems are NOT compatible: only Max Range MDTs must be used with a Max Range Repeater (and Max Range DCAP) and vice versa.
Refer to AN-119 in the documents section of our website for more information.

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