



T8-LTE Energy and Environmental data radio

Long-range, wireless sensor transceiver for outdoor use



Solar model shown with optional RH/T sensor probe.

FEATURES

- **Internally powered**
High capacity battery with solar charging option. Long life and low maintenance. Built-in 12vdc power supply operates external sensors for a truly wireless solution.
- **Configurable input options**
Two general purpose inputs switch selectable for 10k type 2 or 3 thermistor, 0-5v/0-10vdc, or 4-20mA instruments.
- **Sensor options**
Available with integrated outside air relative humidity and temperature sensor. Can be used in addition to other analog or thermistor inputs.
- **Long-Range communication**
High power 900MHz radio link with directional antenna for reliable line of sight communication to 3 miles. Standard range 2.4GHz version also available.
- **Rugged**
Impact resistant polycarbonate enclosure with weather tight gasket and cable seals stands up to harsh environments.

OPERATION

Inputs

Switch selectable universal inputs accommodate thermistors, voltage, or milliamp output devices. Optional built-in outside air RH/T sensor probe with stainless media filter and solar shield. Ideal for remote monitoring of ambient temperature and humidity, fluid levels, pressures, soil tension, surface or immersion temperatures, gas sensors, and other environmental or industrial sensor data.

Power

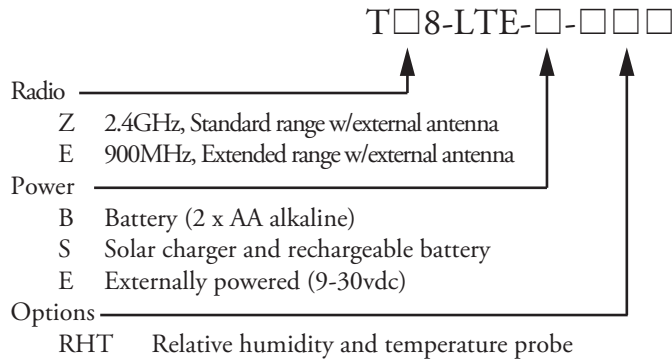
Internal high-capacity battery powers transmitter and external sensors. Solar charging and external powered versions also available. User selectable power management allows sensors to be automatically powered on only when needed. Data transmission rate is also selectable to optimize battery life and performance.

Radio

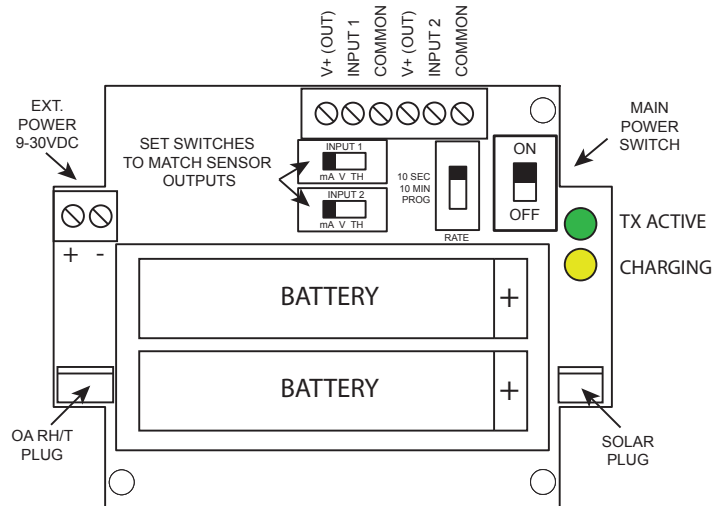
High-power 900MHz radio transmitter and directional antenna provides long-range reliable data link. Compatible with Miratron R8 series serial output receivers. Modbus RTU and BACnet MS/TP versions available for easy integration with building automation systems or PLC's.

ORDERING INFORMATION

BASE MODEL WITH INTEGRATED OPTIONS



WIRING/CONFIGURATION



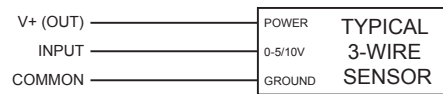
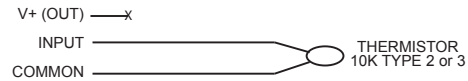
Ordering example:

TE8-LTE-S-RHT (Extended range, solar power, and RH/T probe.)

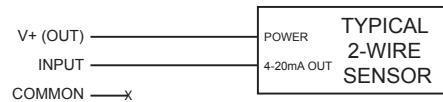
ACCESSORIES - ORDER SEPARATELY

PART #	DESCRIPTION
T8-VAC	Vacuum sensor kit for soil tensiometer
T8-IMM	Temperature sensing immersion probe w/armored cable
T8-ANE	Pulse to analog converter for cup anemometer
T8-PMK-LTE	Pole mounting kit w/tilt adjustment for solar alignment.
ANT-YAG-900	Directional long-range Yagi antenna kit w/mounting.
ANT-OMN-900	Omni-directional long-range whip antenna kit w/mounting.

EXTERNAL SENSOR WIRING:



CONSULT SENSOR INSTRUCTIONS FOR SPECIFIC INSTALLATION REQUIREMENTS



Consult installation manual prior to installation or service.

SPECIFICATIONS

Power	Solar charger (-S) Battery only (-B) External (-E)	Internal (26650 LiFePO ₄) rechargeable battery with solar charging Internal replaceable (2 x AA) alkaline battery 9-30vdc, 100mA
Inputs	TH (thermistor setting) V (voltage setting) mA (current setting) -RHT option	Resistive input for 10k-ohm type 2 or 3 thermistor (jumper selectable) 0-10vdc input range 0-20mA input range (for use with 4-20mA devices) Serial interface for Miratron integrated RH/T sensor probe option
Configuration/Setup	Power Transmit rate Input selector switch Indicators	On/Off switch Switch selectable, 10 sec or 10 min fixed or programmable automatic interval 2 x Switch selectable thermistor, voltage or current input Internal transmit and charging status LEDs
Radio	Standard Range Extended Range	2.4GHz, Unlicensed ISM band, 1000 feet line-of-sight outdoor range 902-928MHz, Unlicensed ISM band, Up to 3 miles outdoor line-of-sight with optional directional antenna
Enclosure	UV stable polycarbonate, NEMA 4X, 5-3/4" x 3-1/2" x 2-1/4", with molded-in mounting brackets	