

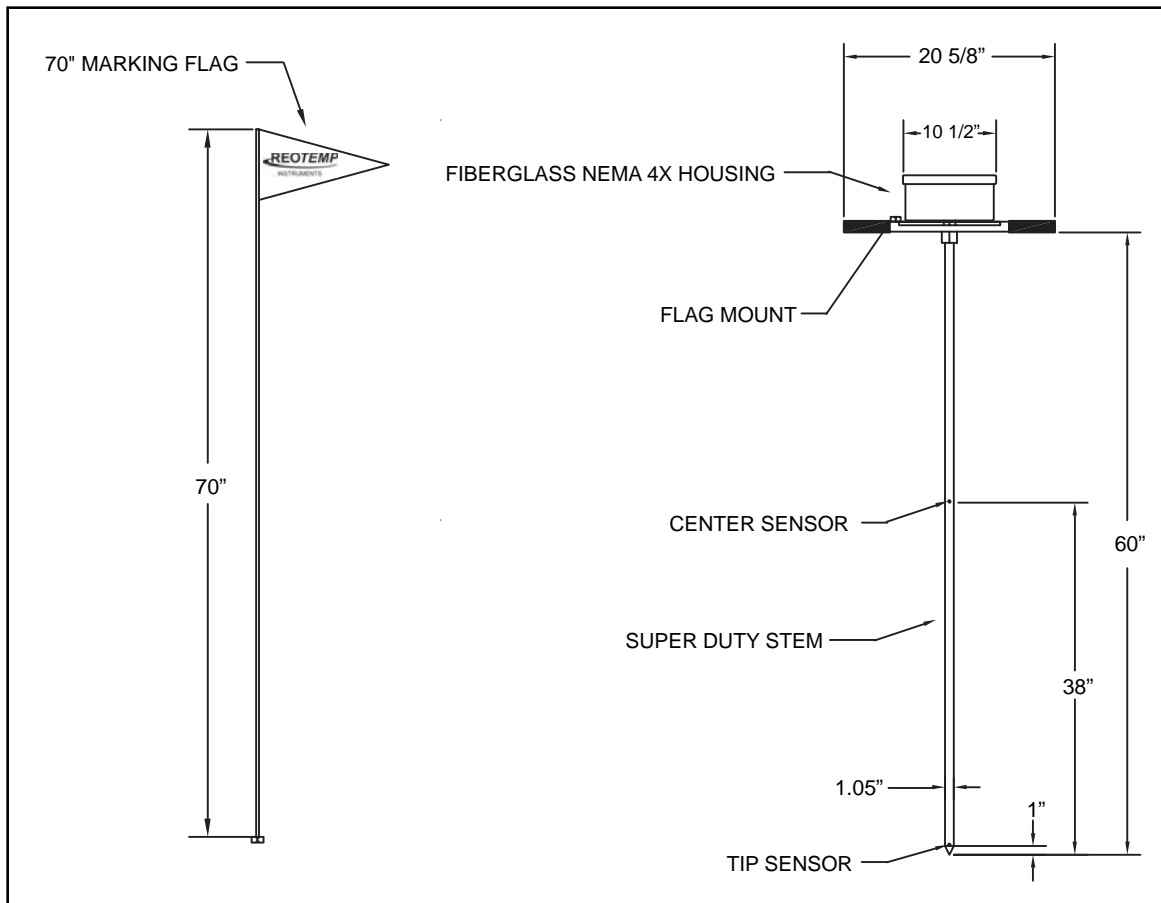
REOTEMP offers a wireless temperature network solution for the compost industry.



EcoProbe Terminal Receiver
(DeviceNet, Windows based, or Modbus)

- 2 temperature data points / probe
- 60 probes (120 temperature data points) / terminal receiver
- Up to 12 terminal receivers on DeviceNet (or Windows based)
- Non-licensed 900 MHz, Spread Spectrum RF
- Stainless steel insertion probe w/CPVC sheath
- NEMA 4X environmental rating
- At least 18 month probe battery life (at 10 min. intervals)
- Temperature accuracy +/- .30 °C
- 70" Orange marking flag

EcoProbe Drawings



EcoProbe





INSTRUMENTS

EcoProbe Specifications

Overall System	
RF Scheme	902-928 MHz, non-licensed, duplex
Modulation	Frequency hopping, Spread Spectrum
Range	Up to 1,000 ft. line of sight
Operating Temperature Range	0 to 100 °C
Warranty	24 months
EcoProbe Terminal Receiver	
Physical Data/dimensions	4.5" W x 10.5" H x 5.5" D WT <2.5lbs. Fiber reinforced Glass plastic composite, UV hard
Power Supply	7-32 VDC - provided through DeviceNet network; 0.07A consumption per terminal node
RF Sensitivity	-96 dBm @ 902-928 MHz
Inputs	RF only from EcoProbe temperature probes. Up to 60 probes (120 temperatures) maximum per terminal receiver. Up to 12 terminal receiver on DeviceNet
Antenna Connection	TNC female bulkhead connector on enclosure
Antenna	3dB Gain Omnidirectional: 902-928 MHz (standard)
Output	Option #1 - Windows based software for a PC. Option #2 - DeviceNet: Two (2) 16-bit words which contain two (2) 10 bit integers for each temperature datum. (Integer = 0 to 85.0 C); Battery status; Probe I.D.; RF link status. Option #3 - Modbus: Call for specifications
Polling Response Time	DeviceNet: 5 ms
Error Correction	Proprietary coding scheme. Multi-level error checking with retries
EcoProbe Temperature Probes	
Physical data/dimensions	4.5"H x 7.625W x 7.625" L (enclosure) O.A.L.: 72" WT 12 lbs. Enclosure - fiberglass / insertion probe - Stainless Steel w/CPVC Shealth
Power Supply	Internal 3.6 VDC Lithium battery
Battery Life	At least 18 months (at 10 minute intervals). Dependant upon data point transmission frequency and extreme low temperatures.
RF Power	100 mW @ 902-928 MHz
RF Sensitivity	-96 dBm @ 902-928 MHz
Antenna	Internal Unity Gain Omnidirectional 1/4λ
Input	Two (2) RTD sensors per probe; Class B; 0.385TC
Output	RF only to terminal receivers
Sensor Temp. Measurement Range	0 to 100 °C
Probe Electronics Operating Temp.	-40C to 85 °C
Accuracy	+/-0.30 °C