

TenXsys Wireless Air Temperature Sensor

1.0 Description

The TenXsys Wireless Air Temperature Sensor, shown in Figure 1, is a battery powered, weatherproof device that measures and wirelessly reports ambient air temperature. Intended use is for gathering air temperatures in pens or barns and reporting these temperatures to the TenXsys Bovine Health System software.

Temperature data is stored on board the TenXsys Wireless Air Temperature Sensor in nonvolatile memory and is periodically reported to a TenXsys Repeater station. The Repeater station then forwards the data to a personal computer running the TenXsys Bovine Health System. Temperature data is associated to a user assigned name given to each TenXsys Wireless Air Temperature Sensor. Data can be viewed in the TenXsys Bovine Health System software or exported to Microsoft Excel.

2.0 Specifications

- 2.1 Weight: 510 grams (without mounting hardware)
- 2.2 Enclosure dimensions: W 4.33 inches x H 2.95 inches x D 2.16 inches
- 2.3 Recommended operating temperature: 0° C to 70° C
- 2.4 Storage temperature: -55° C to 125° C
- 2.5 Radio frequency: 902-924 MHz (ISM band)
- 2.6 Operating life with installed Lithium battery 3.6 V: minimum 8 years
- 2.7 Reporting schedule: 3 times daily; configurable upon customer request, or by user
- 2.8 Temperature sensor save rate: every 15 minutes; configurable upon customer request, or by user
- 2.9 Radio range: up to 500 meters to a TenXsys Repeater station



Figure 1: TenXsys Wireless Air Temperature Sensor

3.0 Mounting Configurations

The TenXsys Wireless Air Temperature Sensor comes with an attached backing plate. The backing plate allows mounting to a wall surface using screws, to a pole using conduit straps or pole clamps, or to larger structures using plumbers tape. Figure 2 shows a variety of standard mounting hardware available in the electrical or plumbing sections of hardware stores.

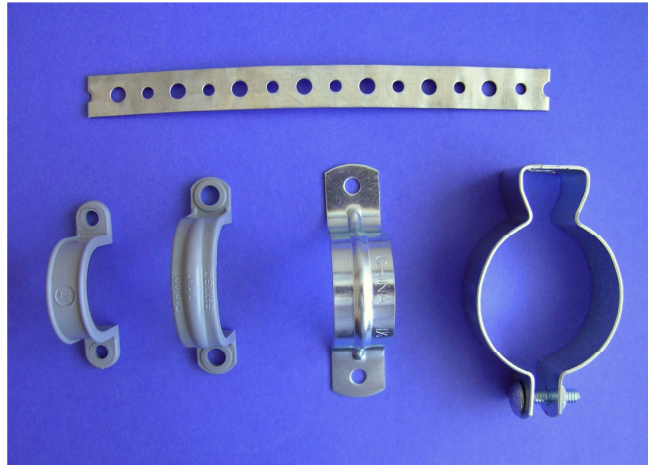


Figure 2: Mounting hardware used to attach the TenXsys Wireless Air Temperature Sensor

4.0 Sales and Support Contact Information

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