

Auto-Meteo Atmospheric Sensor



FEATURES

- Measures temperature, barometric pressure, and relative humidity measurement
- Communication over ethernet/TCP IP
- Low power consumption
- 4m sensor cable
- Radiation shield
- Small size

BENEFITS

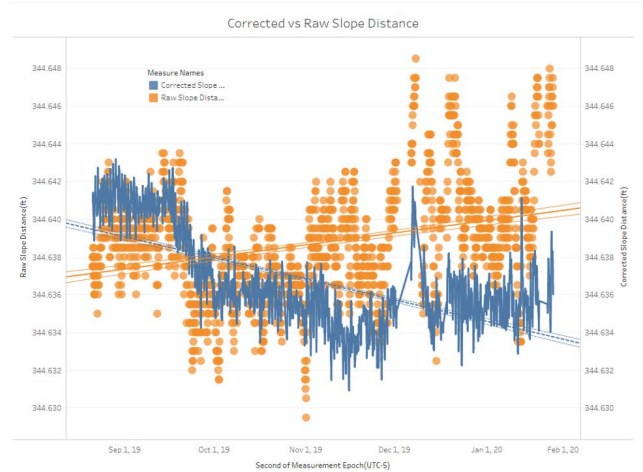
- Compatible with most M2M modems used with AMTS
- Data may be imported into various AMTS management software, including Navstar's GeoExplorer and Leica's GeoMoS
- Easy to install
- Increases accuracy of AMTS measurements through real-time atmospheric corrections

AUTO-METEO

Automated Motorized Total Stations (AMTS) use an optical laser sensor to monitoring position. This reading method is particularly susceptible to interference from the refractive index of the air the laser is passing through. If the atmospheric conditions can be measured, the refractive index can be calculated and applied to correct the measurements.

To assist with correcting AMTS measurements, Specto Technology developed the Auto-Meteo, a simple, effective, atmospheric sensor and datalogger that can be easily integrated with an AMTS. The Auto-Meteo measures the meteorological parameters (temperature, barometric pressure, and relative humidity) needed to do real-time atmospheric corrections to automated survey data.

The Auto-Meteo was designed to take advantage of the usually empty ethernet port on the same modem used to control an Automated Total Station and seamlessly connect to GeoExplorer as a Weather Station sensor. The simple design and small size allow the Auto-Meteo to be integrated in to any AMTS installation with little to no modification of the typical install means and methods.



TECHNICAL SPECIFICATIONS

Sensor: Accuracy (Rel. Humidity): 1.5%
Accuracy (Baro. Pressure rel): 0.01mbar
Accuracy (Temperature): 0.2°C

Ethernet Hub: Aluminum
4lbs
Anderson SB50 (Red)

Electrical: Power Input: 48VDC (Power over Ethernet - POE)
Power Method: POE
Current Draw: 14mA @ 48V
Max current (Cont.): 2A
IEC protection class: Class III
RoHS compliance: RoHS III (2011/65/UE+2015/863)

Dimensions: Hub: 4.33" 2.87" 1.85"(LWH)
Sensor: 6" Diameter x 4.5" Height