

# Thunderstorm Technology

www.tstorm.com

## Electric Field Mill Sensor TT-210 Specifications

Sensor Operational Temperature Range (specifications apply over full temp. range)	-25°C to +65°C
Full Scale Measurement Range	+/- 32.768 kv/m
Polarity Sense	Positive reading for foul weather (negative charge overhead)
Resolution	1 v/m
Intrinsic electrical noise (electronics less modulator)	< 1v/m, AC & DC
Extrinsic noise (zero field error)	< 30 v/m, DC
Bandwidth (shutter modulator)	DC to 10 Hz (-3dB)
Sampling Rate	50 Samples/sec
Non-linearity	0.015%
Absolute gain error	+/- 2% at 25°C +/- 2.5% max over operating temp. range
Contamination error	<+/-1 v/m for 350 Kohm insulator resistance
Power line interference rejection	-40dB at 60Hz, 120Hz
Self-Calibration	Remotely commandable
Remote self-test and Fault Diagnosis	Microprocessor-controlled sensor responds to extensive command set.
Digitized packet output	1200 Baud, binary format with CRC error checking
Analog Output	+/-10 volts, full scale
Power requirements	120 VAC +/-25%, 14 W +12VDC +/-1.5VDC, 0.9A (3.5A for 2.5 sec at startup)
Support stand and housing	Marine grade aluminum, NEMA 3, 4X