

## TSS928 Thunderstorm Sensor

The TSS 928 was designed to meet the critical need for integrated, automated thunderstorm detection. It provides cost-effective and reliable single-point omni-directional thunderstorm detection. The TSS 928 connects directly to modern automated data acquisition and processing systems, such as Mesotech's MicroDCP. The sensor uses GAI patented technology.

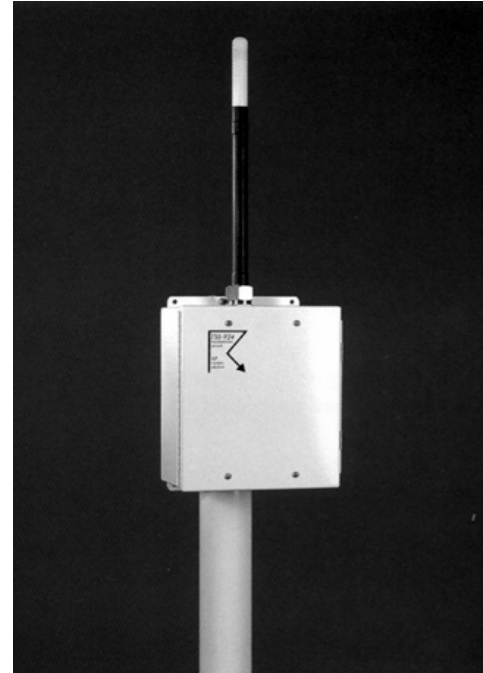
The TSS 928 is the only independently tested thunderstorm sensor designed for the severity of the weather platform environment. It detects and differentiates cloud and cloud-to-ground lightning, providing complete lightning information and threat analysis with zero false alarms. The omni-directional range characteristics provide for ground discharges out to 30 miles.

The thunderstorm sensor will interface with most common communications interfaces and protocols. It has low power consumption, allowing its use in limited power applications. The electronics are housed in a NEMA4X weatherproof enclosure.

The sensor automatically performs complete self-testing to give an indication of sensor status on a routine basis. Its modular design allows for easy preventative and field maintenance, system check, and problem isolation and resolution.

### Ordering Information

TSS928 Thunderstorm sensor  
50386 Mast assembly  
51634 Mast installation kit



### Technical Specifications

Range:	30 miles omni-directional
Efficiency:	100% within 10 miles with 3 discharges for thunderstorms. 90% within 10 miles for one discharge
Resolution:	0 to 5 miles, 5 to 10 miles, 10 to 30 miles Available in nautical miles and kilometers
False alarms:	None if properly installed and maintained.
Power:	115 VAC $\pm 10\%$ or 230 VAC $\pm 10\%$ . 6 watts typical, 80 watts with heater. DC power input available on request.
Communications:	Metallic or fiber data links Serial ASCII format, 300 to 9600 baud RS-232 at 9600 bps Automatic message or polled
Mounting:	3 ft maximum height recommended
Operating temp:	-40 to +60°C
Wind load:	0 to 120 knots
Humidity:	0 to 100%
Siting:	Contact factory for complete siting information and other restrictions.