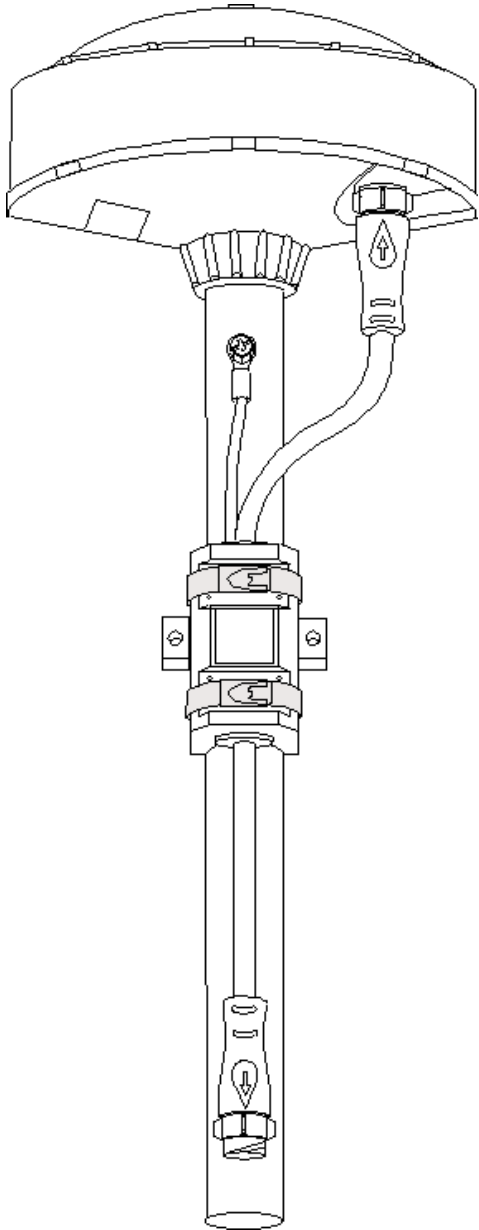


Acutime 2000 Lightning Protector

Transient Voltage Surge Suppression for GPS Smart Antenna interfaces



Lightning protector shown installed on a Trimble Acutime 2000 GPS antenna.

These protection devices were specifically designed to protect Trimble's Acutime™ 2000 GPS smart antenna interfaces from damage caused by lightning storms, secondary effects of power surges, and transient ground potential energies.

GPS surge suppressers are best applied as near as physically practical to sensitive electronic equipment, components and system ground references. This device is specifically designed to provide protection for the time source and power supply lines as well as RS-422 communication interfaces.

Mounting options include mast clamp mounts for direct installation at the antenna, or mounting flanges for installation directly to an equipment rack or chassis at the system time source interface connector (mounting hardware is not included).

It is recommended that one lightning protector be installed at each end of the time source interface cable. Each protection ground wire must be connected directly to a properly grounded equipment chassis or antenna mast.

ENVIRONMENTAL SPECIFICATIONS

Clamp voltages:	(common and differential modes) RS-422: 6 volts, Power supply: 36 volts
*Maximum repetitive self-reset surge:	3700 volts for 100 pulses using 2 ohm source per EN61000-4-5 Specification.
*Maximum fail safe surge:	6600 volts for 100 pulses using 2 ohm source per EN61000-4-5 Specification. Exceeds EN6100-4-5, levels 4 and 6X
Typical clamping time:	<10 Nanoseconds
Maximum capacitance:	Common mode: <40pF, Differential mode: <40pF
Approximate size:	(H x W x L) 1.5"x2.0"x2.5"

ORDERING INFORMATION

Part Number	Antenna Model	Connector Type and Communication Interface
43277	Acutime 2000	12-pin circular, male/female (antenna end), RS422

Additional information is available on the Trimble website at:
<http://www.trimble.com/products/catalog/timing/acutime2000.htm>

*The lightning protector will repetitively protect and reset without degradation up to and including maximum repetitive self-reset surge. If it is subjected to more than its maximum repetitive self-reset surge, the device will fail in a clamped mode, keeping the equipment safe from subsequent surges up to its maximum fail safe surge until removed or replaced.