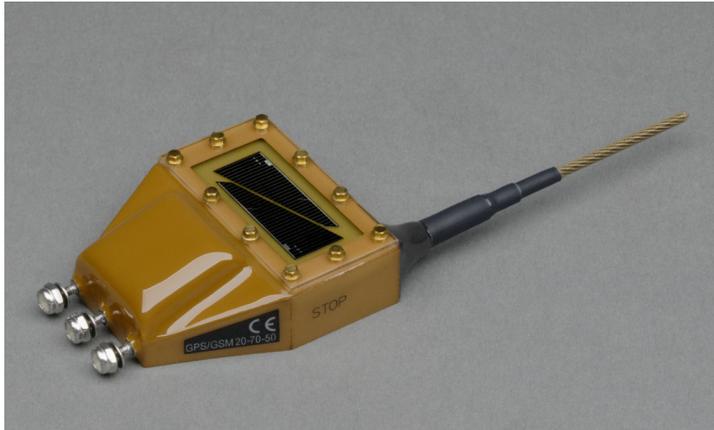


GPS/GSM 20-70 50g Patagial Transmitter

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Columbia, MD 21045
USA



SENSORS

The GPS/GSM 20-70 50g Patagial Transmitter includes sensors to measure temperature, battery voltage, and activity. A multi-channel GPS receiver calculates position, altitude, course, speed, HDOP, VDOP, and number of GPS satellites.

GENERAL ELECTRICAL SPECIFICATIONS

Dual Band Frequencies: 850/1900 MHz or 900/1800 MHz

Power output: 2 W

Output impedance: 50 ohms

Quiescent current: <3 μ A

Supply voltage: 3.6–4 volts

Operating temperature range: -15–45°C

Certified by:

FCC

Industry Canada

PTCRB



PHYSICAL SPECIFICATIONS

Dimensions*: Length 2.32 in (5.89 cm) x Width 2.15 in (5.46 cm) x Height 0.82 in (2.08 cm)

Weight: ~56 grams

Antenna: Hard nylon-coated flexible stranded marine-grade stainless steel, 3.35 in (8.51 cm) long, protruding from the back edge of the transmitter

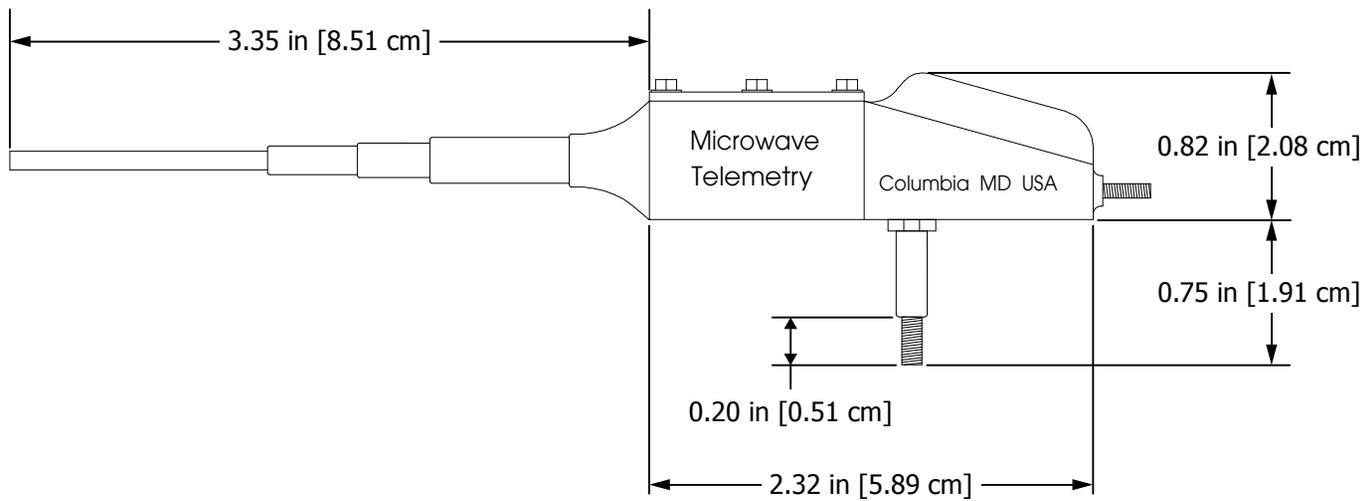
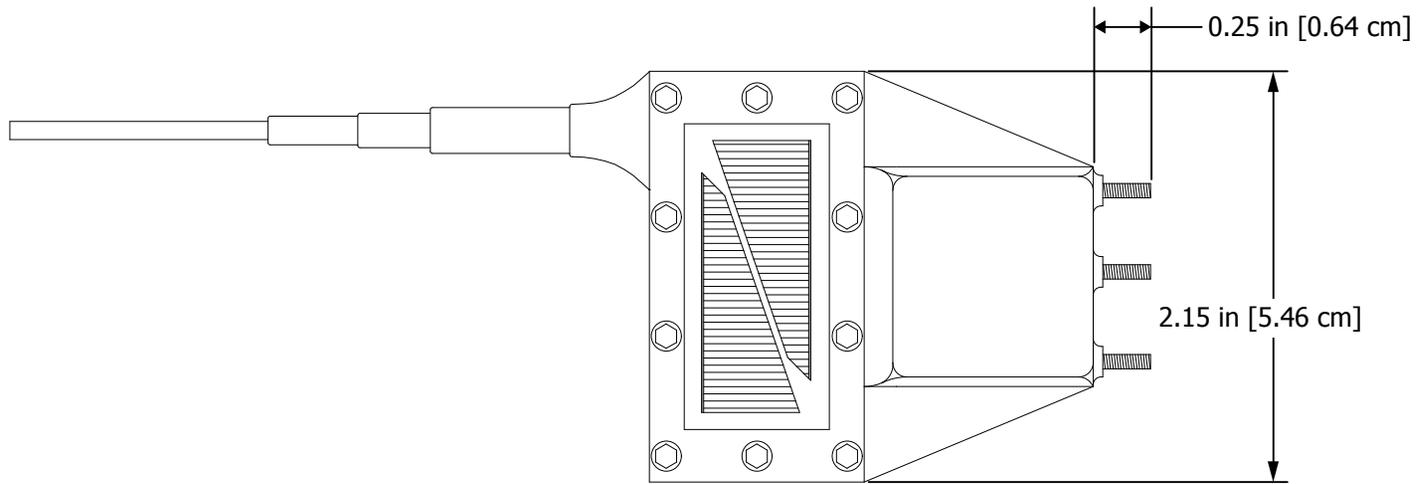
FEATURES

- Solar-powered, rechargeable battery
- Microprocessor-controlled power management
- Internal multi-channel micro-power GPS receiver
- SBAS capable (WAAS, EGNOS, and QZSS)
- GPS horizontal accuracy ± 18 m
- GPS vertical accuracy ± 22 m
- GPS resolution 0.00001 degree (~ 1 meter at the equator)
- Dynamically adjusting GPS fix rate (1-minute minimum with current software version)
- Archive capacity of up to 258,000 locations
- Configured for patagial wing attachment
- Reinforced antenna base
- Alternative color options available
- Operating lifetime up to 3 years

CONSTRUCTION

The housing is constructed from a lightweight glass-reinforced epoxy composite material with a contiguous interior metal-plated coating. The unit is hermetically sealed with a metal-to-metal solder joint providing stability during changes in temperature and humidity. The solar array is encapsulated in silicone and covered with a polycarbonate window for added durability. Additional hardware is included for patagial attachment.

* Mounting posts not included in these dimensions.



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