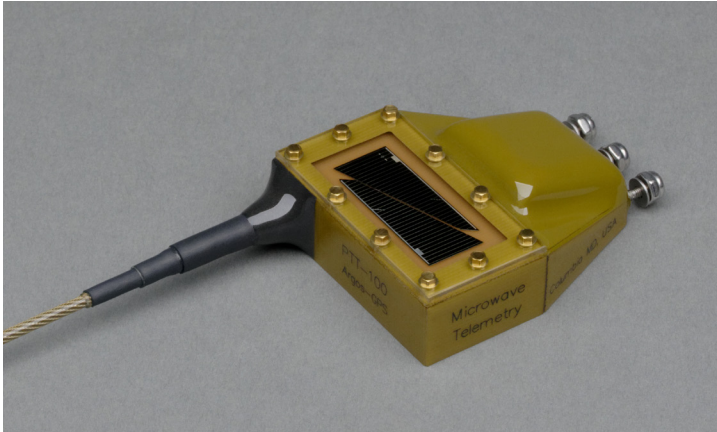


# Solar Argos/GPS 50g Patagial PTT

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## SENSORS

The Solar Argos/GPS 50g Patagial PTT includes sensors to measure temperature, battery voltage, and activity. A multi-channel GPS receiver calculates position, altitude, course, and speed.

## GENERAL ELECTRICAL SPECIFICATIONS

Operating frequency: 401.650 MHz  $\pm$ 36 kHz  
Power output: 200 mW output is standard\*\*  
Output impedance: 50 ohms  
Modulation tri-phase PSK:  $\pm$ 1.1 Rad  $\pm$ 0.1 Rad  
Quiescent current: <3  $\mu$ A  
Spurious emissions: -45 dB  
Transmission interval: 60 seconds\*\*\*  
Supply voltage: 3.6–4 volts  
Operating temperature range: -15–45°C

\* Mounting posts not included in these dimensions.

\*\* Adjustable between 100–500 mW.

\*\*\* Can be optimized for your requirements at time of manufacture.

## 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

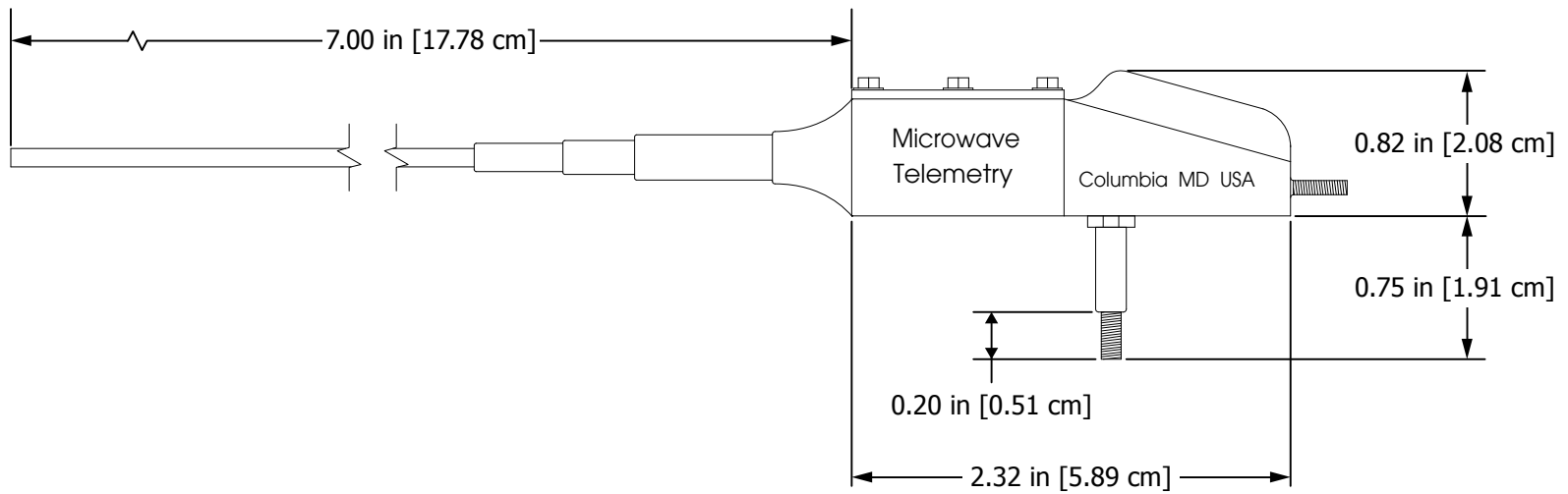
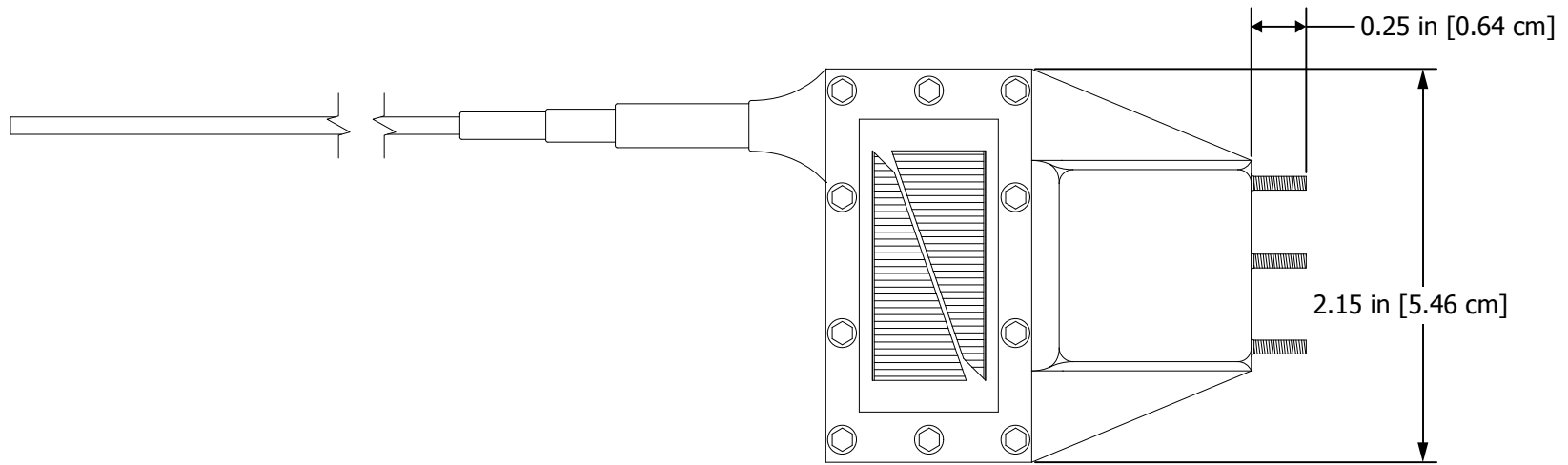
**Antenna:** Hard nylon-coated flexible stranded marine-grade stainless steel, 7.00 in (17.78 cm) long, protruding from the back edge of the transmitter

## 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  $\pm$ 18 m
- GPS vertical accuracy  $\pm$ 22 m
- Programmable with up to 5 duty cycle seasons
- SiV™ Technology
- Embedded CRC checksum with bit error detection
- Optional 2D Firmware
- Optional Seasonal GT™ and Mortality GT™
- 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.



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