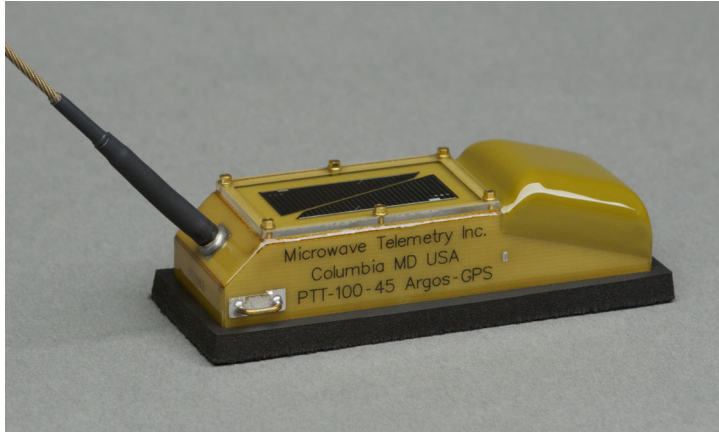


# Solar Argos/GPS 45g PTT

Microwave Telemetry, Inc.  
8835 Columbia 100 Pkwy, Suites K & L  
Columbia, MD 21045  
USA



## SENSORS

The Solar Argos/GPS 45g 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<sup>†</sup>  
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<sup>††</sup>  
Supply voltage: 3.6–4 volts  
Operating temperature range: -15–45°C

\* Harnessing loops and neoprene pad not included in these dimensions.

\*\* Neoprene pad not included.

\*\*\* Matte finish does not apply to the polycarbonate window covering the solar array.

## PHYSICAL SPECIFICATIONS

**Dimensions\***: Length 3.30 in (8.38 cm) x Width 1.15 in (2.92 cm) x Height 0.80 in (2.03 cm)

**Weight\*\***: ~45 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 45° to the bottom face

## FEATURES

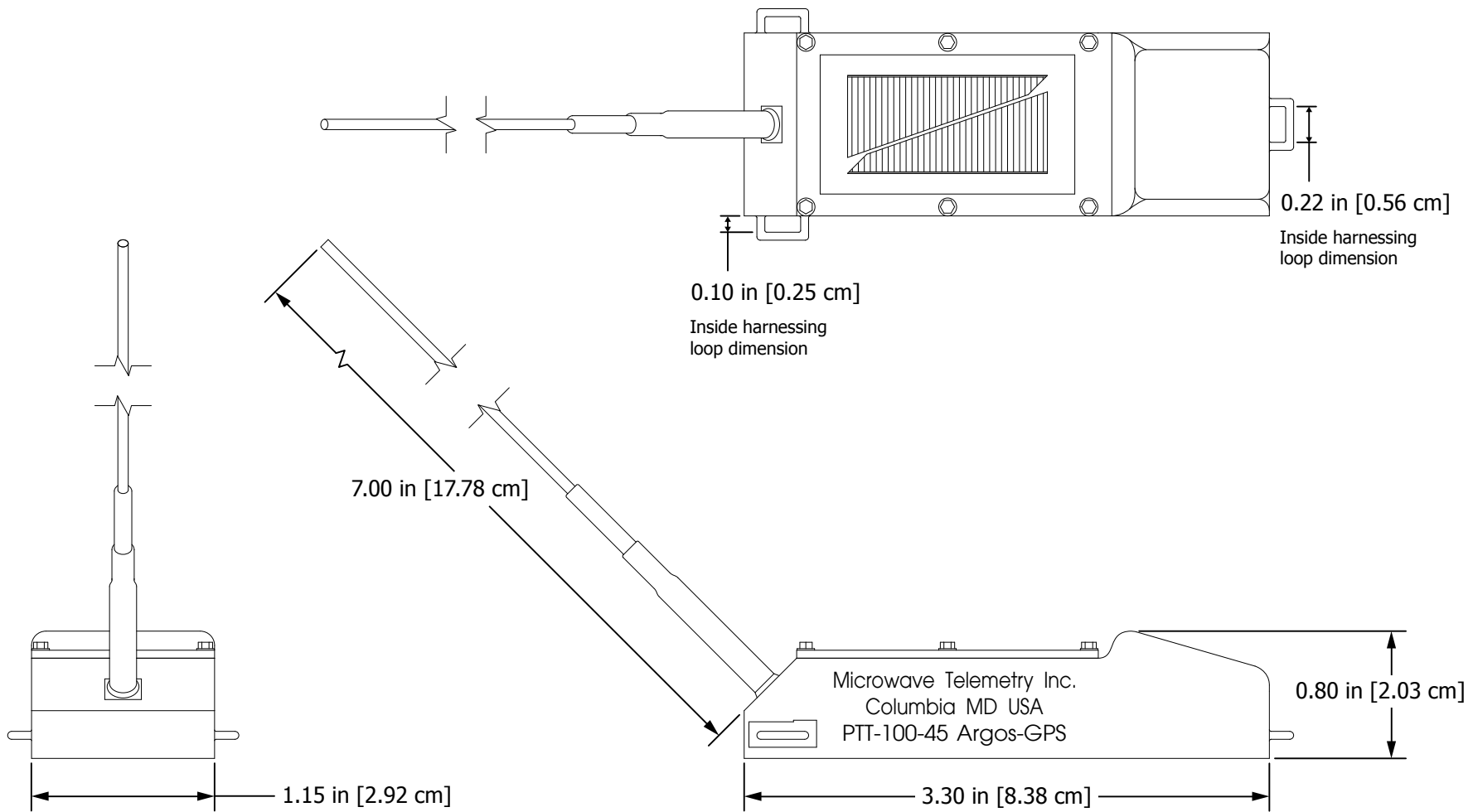
- Solar-powered, rechargeable battery
- Microprocessor-controlled power management
- Internal multi-channel micro-power GPS receiver
- SBAS capable (WAAS, EGNOS, and QZSS)
- GPS horizontal accuracy  $\pm$ 18 m
- GPS vertical accuracy  $\pm$ 22 m
- Programmable with up to 5 duty cycle seasons
- SiV™ Technology
- Embedded CRC checksum with bit error detection
- Optional 2D Firmware
- Optional Seasonal GT™ and Mortality GT™
- Configured for backpack attachment (with standard neoprene cushioning pad)
- Alternative color and matte\*\*\* finish 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.

<sup>†</sup> Adjustable between 100–500 mW.

<sup>††</sup> Can be optimized for your requirements at time of manufacture.



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