

# Solar 18g PTT

Microwave Telemetry, Inc.  
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USA



## SENSORS

The Solar 18g PTT includes sensors to measure temperature, battery voltage, and activity with each parameter relayed to Argos on 3 out of every 4 transmissions. The fourth transmission relays the status of the duty cycle.

## 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: -10–45°C

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

\*\* Neoprene pad not included.

\*\*\* Customer must supply leg band at least 4 weeks prior to scheduled delivery.

Be advised that the combined weight of the PTT and leg band will exceed 18 grams.

## PHYSICAL SPECIFICATIONS

**Dimensions\***: Length 2.45 in (6.22 cm) x Width 0.70 in (1.78 cm) x Height 0.53 in (1.35 cm)

**Weight\*\***: ~18 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

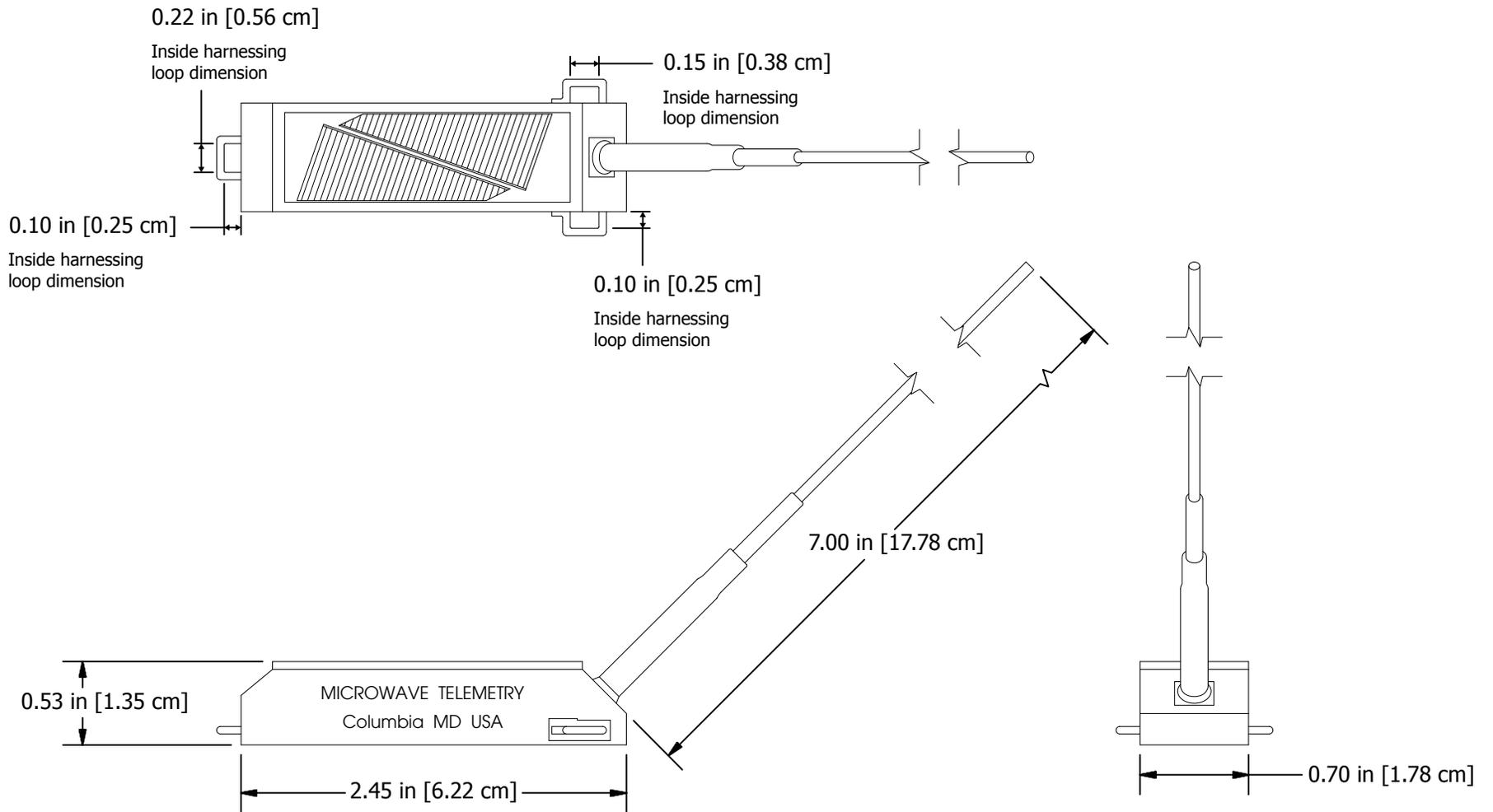
- Solar-powered, rechargeable battery
- Microprocessor-controlled power management
- Programmable duty cycle
- Multi-season duty cycle timer available
- Optional XT™ programming
- Optional Seasonal GT™ and Mortality GT™
- Backpack (with standard neoprene cushioning pad) and leg band\*\*\* attachment options available
- 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.

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

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



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