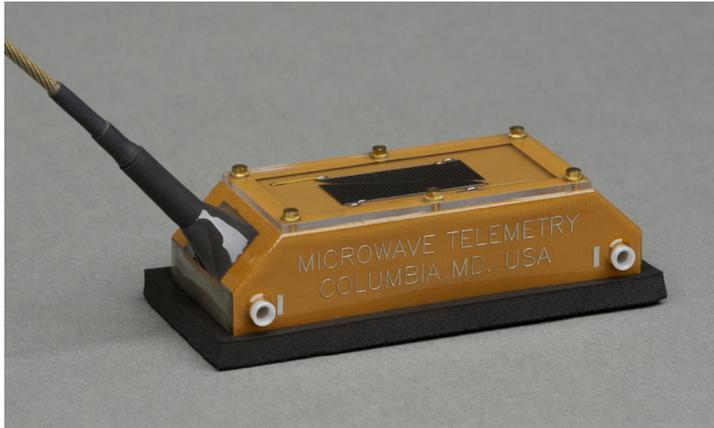


Solar 50g PTT

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



SENSORS

The Solar 50g 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***
Output impedance: 50 ohms
Modulation tri-phase PSK: \pm 1.1 Rad \pm 0.1 Rad
Quiescent current: $<$ 3 μ A
Spurious emissions: -45 dB
Transmission interval: 60 seconds[†]
Supply voltage: 3.6–4 volts
Operating temperature range: -15–45°C

* Neoprene pad not included.

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

PHYSICAL SPECIFICATIONS*

Dimensions: Length 3.48 in (8.84 cm) x Width 1.38 in (3.51 cm) x Height 0.84 in (2.13 cm)

Weight: ~50 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

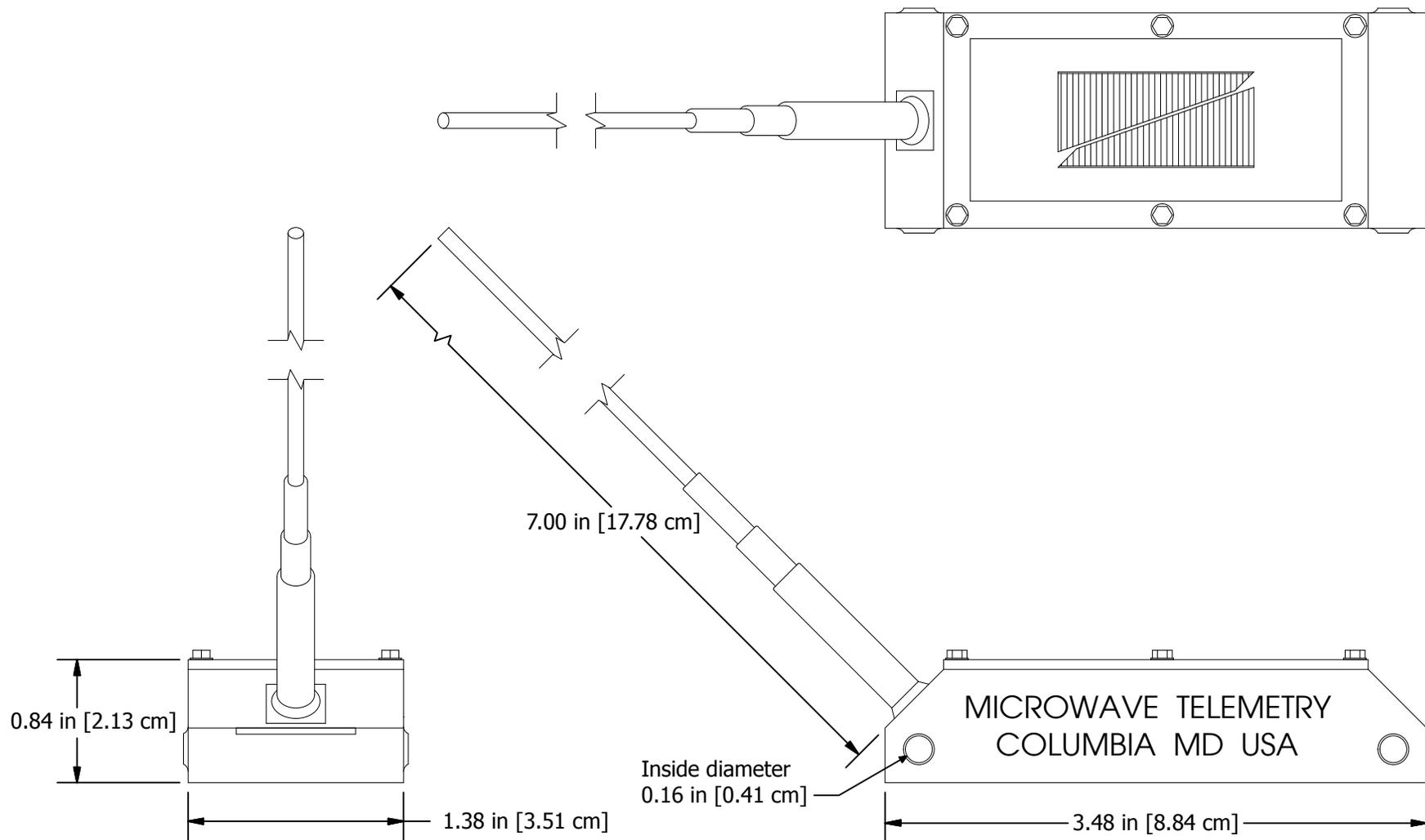
- Solar-powered, rechargeable battery
- Microprocessor-controlled power management
- Programmable duty cycle
- Multi-season duty cycle timer available
- Optional XT™ programming
- Optional Seasonal GT™ and Mortality GT™
- Configured for backpack attachment via harnessing tubes (with standard neoprene cushioning pad)
- Reinforced antenna base
- 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.

*** Adjustable between 100–500 mW.

[†] Can be optimized for your requirements at time of manufacture.



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Solar 50g PTT	
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