

Battery Powered 45g PTT

Microwave Telemetry, Inc.
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USA



PHYSICAL SPECIFICATIONS*

Dimensions: Length 2.85 in (7.24 cm) x Width 1.30 in (3.30 cm) x Height 0.68 in (1.73 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

- 1000 hours transmission lifetime**
- Programmable with up to 5 duty cycle seasons
- Optional Seasonal GT™ and Mortality GT™
- Configured for backpack attachment via harnessing tubes (with standard neoprene cushioning pad)
- Alternative color and matte finish options available

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.

SENSORS

The Battery Powered 45g 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

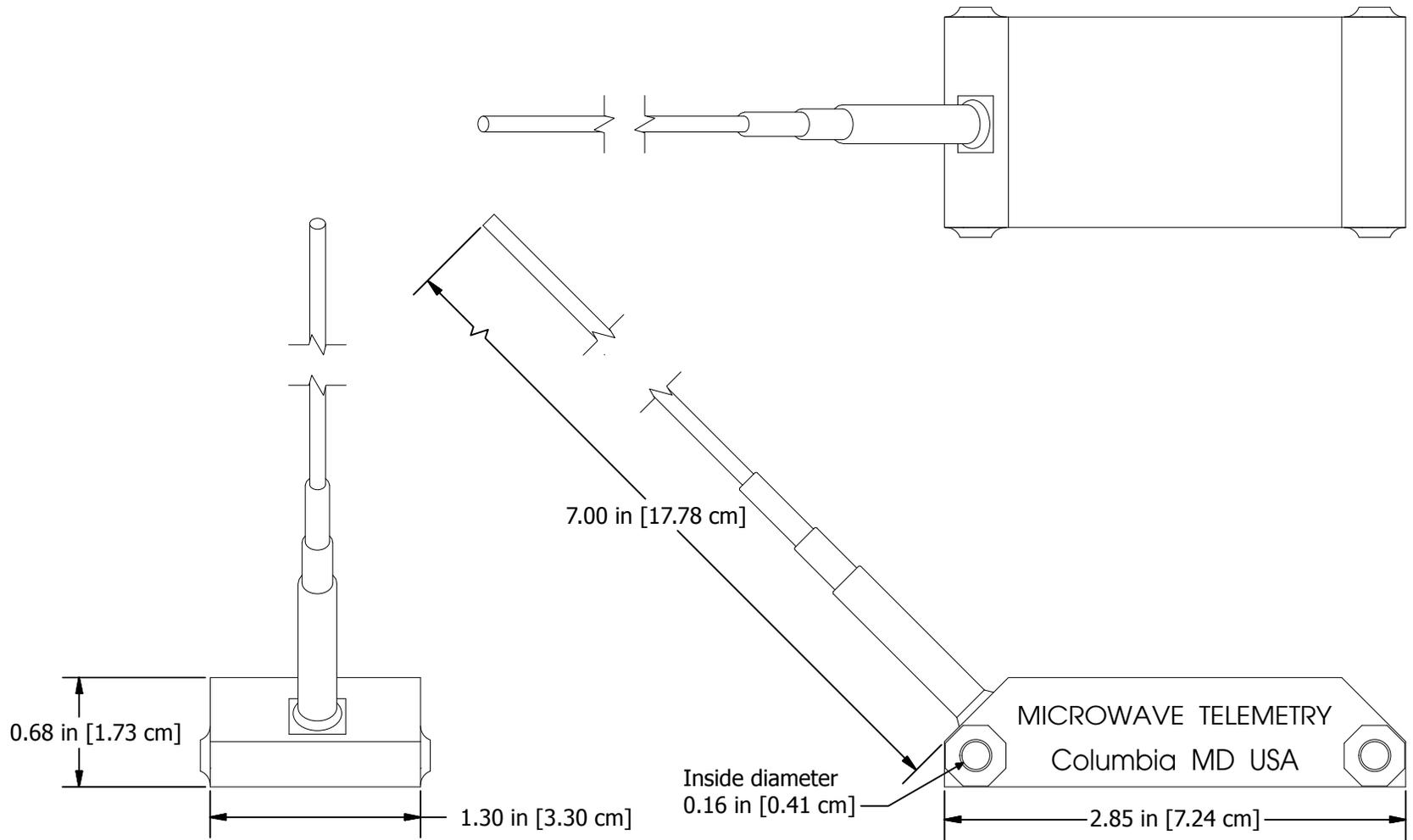
Operating temperature range: -15–45°C

* Neoprene pad not included.

** Estimated transmission lifetime based on an 8 hours ON / 48 hours OFF duty cycle.

*** Adjustable between 100–500 mW.

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



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