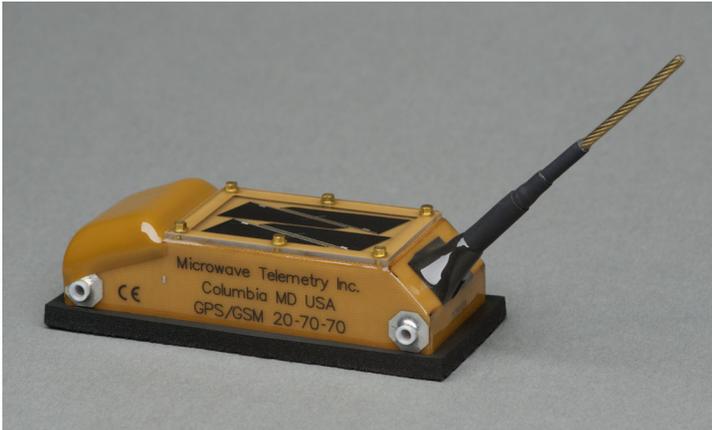


# GPS/GSM 20-70 70g Transmitter

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USA



## SENSORS

The GPS/GSM 20-70 70g Transmitter includes sensors to measure temperature, battery voltage, and activity. A multi-channel GPS receiver calculates position, altitude, course, speed, HDOP, VDOP, and number of GPS satellites.

## GENERAL ELECTRICAL SPECIFICATIONS

Dual Band Frequencies: 850/1900 MHz or 900/1800 MHz

Power output: 2 W

Output impedance: 50 ohms

Quiescent current: <3  $\mu$ A

Supply voltage: 3.6–4 volts

Operating temperature range: -15–45°C

Certified by:

FCC

Industry Canada

PTCRB



## PHYSICAL SPECIFICATIONS\*

**Dimensions:** Length 3.82 in (9.70 cm) x Width 1.51 in (3.84 cm) x Height 0.98 in (2.49 cm)

**Weight:** ~64 grams

**Antenna:** Hard nylon-coated flexible stranded marine-grade stainless steel, 3.35 in (8.51 cm) long, protruding from the back edge of the transmitter 45° to the bottom face

## FEATURES

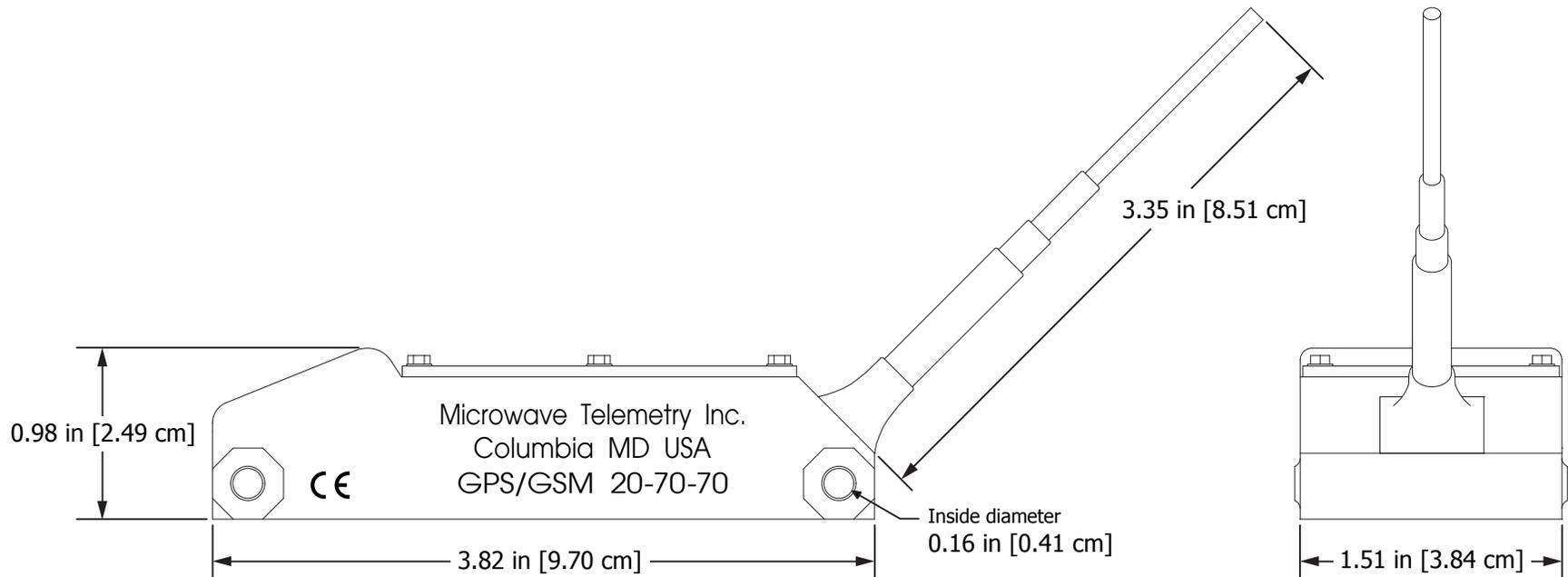
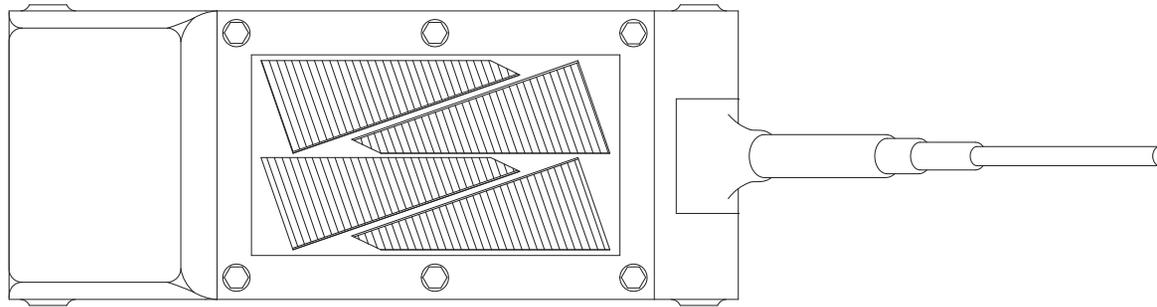
- Solar-powered, rechargeable battery
- Microprocessor-controlled power management
- Internal multi-channel micro-power GPS receiver
- SBAS capable (WAAS, EGNOS, and QZSS)
- GPS horizontal accuracy  $\pm 18$  m
- GPS vertical accuracy  $\pm 22$  m
- GPS resolution 0.00001 degree ( $\sim 1$  meter at the equator)
- Dynamically adjusting GPS fix rate (1-minute minimum with current software version)
- Archive capacity of up to 258,000 locations
- Dual solar arrays for faster charging
- Reinforced antenna base
- Configured for backpack attachment via harnessing tubes (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.

\* Neoprene pad not included.

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



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