**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 ±18 m
- GPS vertical accuracy ±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™
- 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.

---

*Solar-powered, rechargeable battery
• Microprocessor-controlled power management
• Internal multi-channel micro-power GPS receiver
• SBAS capable (WAAS, EGNOS, and QZSS)
• GPS horizontal accuracy ±18 m
• GPS vertical accuracy ±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™
• 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

---

SENSORS

The Solar Argos/GPS 22g PTT includes sensors to measure temperature, battery voltage, and activity. A multi-channel GPS receiver calculates position, altitude, course, and speed.

PHYSICAL SPECIFICATIONS

**Dimensions**: Length 2.54 in (6.45 cm) x Width 0.92 in (2.34 cm) x Height 0.67 in (1.70 cm)

**Weight**: ~22.5 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 35° to the bottom face

GENERAL ELECTRICAL SPECIFICATIONS

- Operating frequency: 401.650 MHz ±36 kHz
- Power output: 200 mW output is standard†
- Output impedance: 50 ohms
- Modulation tri-phase PSK: ±1.1 Rad ±0.1 Rad
- Quiescent current: <3 µA
- Spurious emissions: -45 dB
- Transmission interval: 60 seconds††
- Supply voltage: 3.6–4 volts
- Operating temperature range: -5–45°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 22 grams.

† Adjustable between 100–500 mW.
†† Can be optimized for your requirements at time of manufacture.
Solar Argos/GPS 22g PTT

© Microwave Telemetry, Inc.
10-01-2018 Scale 1:1