PSAT PTT-100 *High Rate Programming*

PHYSICAL SPECIFICATIONS

Dimensions: Max. Diameter 1.6 in (4.06 cm) x Length 6.6 in (16.76 cm)

Weight (in air): ~78 grams

Antenna: 7.0 in (17.78 cm)

FEATURES

- Predefined deployment duration (up to 30 days)
- Transmitted time-series depth, temperature, and light-level data
- Emergency Depth Release (greater than ~1250 m*)
- Constant Pressure Release after 2 days*
- SiV™ technology
- Temperature-compensated real-time clock
- Embedded CRC checksum with bit error detection
- Rated to 3000 psi
- Complete depth, temperature, and light-level records upon recovery and data extraction

CONSTRUCTION

Composite carbon-fiber, low-drag housing constructed with a strong tether attachment point. A polycarbonate BigEye™ nose cone encapsulates the multi-directional light sensor array. The PTT is then coated in a layer of anti-foulant paint to inhibit biological growth.

GENERAL ELECTRICAL SPECIFICATIONS

Operating frequency: 401.650 MHz ±36 kHz

RF output power: 200 mW**

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: -15−45°C

SENSORS

The PSAT PTT-100 includes sensors to measure temperature, battery voltage, and pressure (depth). It is also equipped with multi-directional light sensors to account for tag orientation and dynamic light conditions.
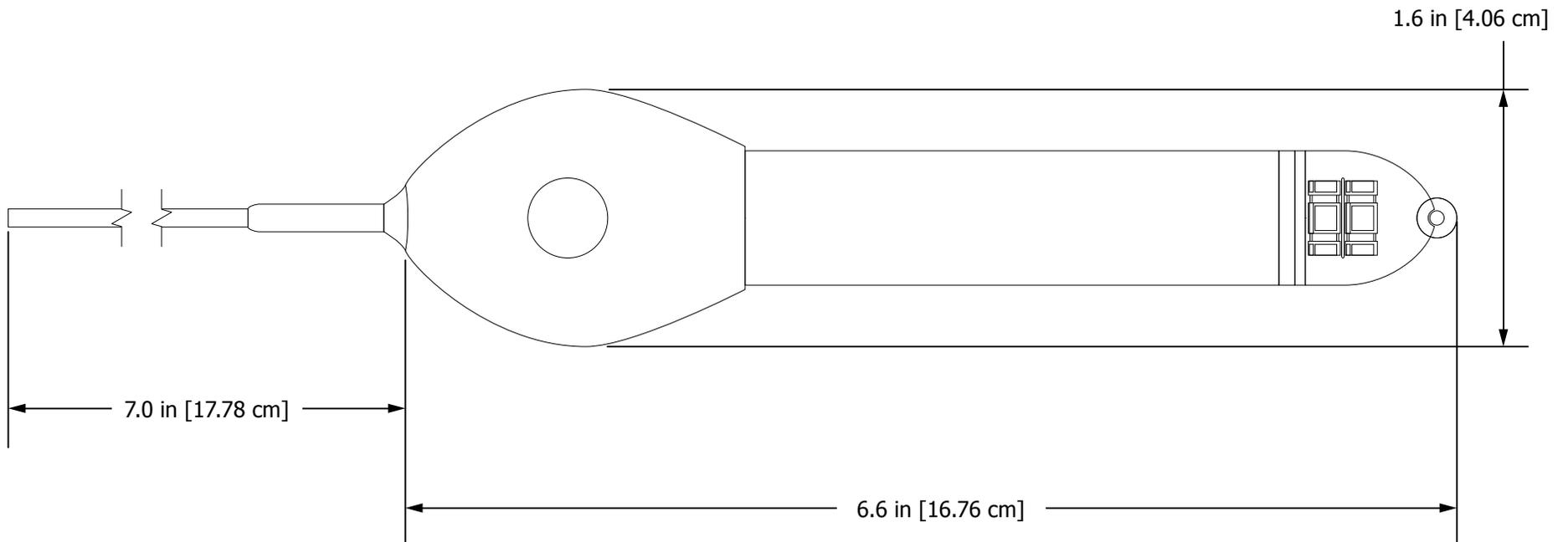
Temperature range: -4−40°C (Resolution: 0.16−0.23°C)

Depth range: 0−1250 m (Resolution: 1.34 m)

Max light sensitivity: <4 x 10^{-5} Lux @ 555 nm

* Can be optimized per your requirements at time of manufacture.

** Adjustable between 100−500 mW.

1.6 in [4.06 cm]

7.0 in [17.78 cm]

6.6 in [16.76 cm]

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PSAT PTT-100

NOTE: Dimensions may vary slightly due to the individually crafted nature of these devices.

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