

## Aries GPS Pod

PBX Systems introduces Aries, a GPS module for positioning seismic energy sources. Aries is a lightweight, rugged, flexible and cost effective alternative to existing products in the market place today.

To simplify installation and system setup Aries is designed to be hard mounted on a float or buoy located over the energy source. Aries lightweight (5 lbs.) and small size (4.5 inch diameter and 10.5 inch length) provides greater flexibility in



module placement. When Aries is powered up the unit will self configure. No operator intervention is required beyond initially assigning a unit ID.

- Most cost effective GPS pod for energy source positioning.
- Position or Carrier Phase Raw Data output.
- Wide voltage input range.
- 12 Channel “all-in-view” parallel tracking.
- Requires only two wire pairs for Raw Data Output (additional pair for DGPS).
- Selectable WAAS/RTCM operation.
- Up to eight Aries pods on a single gun-string.
- Rapid time to first fix after power interruption.

## Performance (typical)

### Position Accuracy

Single Point L1	< 5 m CEP
WAAS L1	< 1.5 m CEP
DGPS(L1, C/A)	< 1 m CEP

### Measurement Precision

L1 C/A Code	75 cm RMS
L1 Carrier Phase	1 cm RMS

### Time to First Fix (typical)

Cold Start	120 s
Warm Start	45 s
Hot Start	15 s

**Signal Reacquisition** < 1 s (typical)

**Velocity Accuracy** 0.05 m/s RMS

## Physical & Electrical

**Size (inches)** 4.5 diameter x 10.5 length

**Weight** 5 pounds

### Power

**Input Voltage** + 18 to +72 VDC  
or +12 to +36 VDC

**Power Consumption** 3.0 W (typical)

### Communication Ports

1 RS-485 for Position/Raw data.

1 RS-485 for RTCM input.

### Input/Output connectors

AG Geophysical AGP-2708M

### Environmental

**Temperature**

Operating -30°C to + 75°C

Storage -40°C to + 85°C

**Part Number** 55290-00

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