

GLI-METROe

The “Smart” GPS Amplifier (CE Approved)



KEY FEATURES

- » Precise control over output signal level
- » Passes L1 (L1/L2 optional)
- » High Frequency Selectivity
- » Perfect for any GPS retransmission application
- » Power Always ON or Power ON/OFF

AVAILABLE OPTIONS

- » Passive Antenna
- » Active Antenna
- » Antenna monitor
- » Swivel Mount
- » COPRO Surge Protector
- » C240 coaxial cable
- » Power Supply AC & DC
- » Filter L1/L2
- » Bluetooth
- » Pole Mount

Complete ready-to-use system is also available. Call for details.

ONLY AVAILABLE TO APPROVED / LICENSED ENTITIES:

- » International Customers (outside the U.S.)
- » Federal Government or agencies operating under the direction of the Federal Government
- » Parties that have received an STA or Experimental License under part 5 of the FCC rules
- » Parties operating in an anechoic chamber

INTRODUCTION

The only smart GPS amplifier that complies with the essential requirements needed for CE and Notified Body approval. GPS Source's GLI-METROe marks the integration of the latest GPS amplifier technology into a self-contained unit. A smart amplifier with a simple user interface, it is perfect for the commercial and public sector. Derived from high performance systems for military applications, the GLI-METROe retransmission device features L1 GPS Signals (optional L2 for approved applications) with signal lock set to -85dBm, and oscillation detection/mitigation.

AUTOMATIC SIGNAL LEVEL CONTROL

The GLI-METROe employs an automatic control to maintain the set output signal level. This is regardless of the uncertain loss or gain in the receive antenna cable network. It is smart enough to automatically condition the signal and prevent changes in performance. With this feature, the ERP stays locked at -85dBm.

OSCILLATION DETECTION & AUTOMATIC MITIGATION

The GLI-METROe prevents system oscillation that can occur as a result of improper installation or operation. If the GLI-METROe detects oscillation, it will independently reduce the system gain. Even if the GLI-METROe is improperly installed or operated incorrectly, it will still prevent system oscillation.

BUILT-IN TROUBLESHOOTING

The GLI-METROe will identify and isolate the following:

- Oscillation condition
 - Internal component failure
 - High gain
 - Less than four satellites
 - Low gain
 - No satellites with adequate signal
 - Short/Open circuit
- (call for complete list of conditions)*



www.gpssource.com

64 N. Mission Drive | Pueblo, West, CO 81007 USA | T: +1 719.561.9520 | F: +1 719.565.0890 | sales@gpssource.com

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Specifications

OUTPUT PORTS

- » Number of ports 1

ELECTRICAL SPECIFICATIONS

- » Input/Output impedance 50Ω
- » SWR all ports (typical)
 - Input: 2:1
 - Output: 2:1
- » Bandwidth
 - L1 1575.42±15 MHz
- » Gain (typical) 0-55dB
- » Gain flatness <3 dB
- » Noise figure <3 dB
- » AC input level
 - 230VAC UK
 - 230VAC European
- » DC input level 12 - 28 VDC
- » Active Antenna Output Power Supply Output 6.8V

PHYSICAL SPECIFICATIONS

- » RF connectors
 - N (m, f)
- » RS232 Serial connector DB9(F) DCE
- » Weight 1.1 lbs (499 g)
- » Size: 5.87" x 3.15" x 1.9" (149.1mm x 80mm x 48.3mm)
- » Operating temperature -40 to +85°C

