UrsaNav UN-154 Differential eLoran Reference Station Integrity Monitor (RSIM)

GENERAL OVERVIEW

The UN-154 is a Differential eLoran Reference Station Integrity Monitor (RSIM) that uses the latest version of our UN-151 eLoran Receiver Module. The UN-154 is designed for use in differential Loran applications. The receiver, configured as a Reference Station (RS), measures and monitors Loran signals and calculates differential corrections based on pseudo range measurements, nominal ASF values, and the surveyed location of the Differential eLoran Station antenna. It can also act as an Integrity Monitor (IM) that pre- and post-checks the validity of the calculated differential corrections. The UN-154 meets the stringent European Telecommunications Standards Institute (ETSI) requirements for Primary Reference Clocks, as well as Stratum-I frequency requirements and traceability of time to within 50 nanoseconds of UTC. Built-in futureproofing ensures the ability to track next generation signals, such as those using advanced waveforms and modulation techniques.

PRODUCT HIGHLIGHT

UrsaNav® ELEGANT™ software is pre-installed, and provides complete monitor and control capability of the receiver. The software is scalable to accommodate implementations where multiple RSIMs communicate with multiple transmitting sites. This software is customizable to meet end-user requirements.

UN-154 Multimode Receiver

KEY FEATURES

- **Multimode:**
  - Loran-C
  - eLoran
  - Chayka
- **Software configurable:**
  - Reference Station
  - Integrity Monitor
  - Hot Standby
- **Switchover:**
  - Automatic
  - Seamless
  - No loss of data
- **Internal solid-state hard drive**

SPECIFICATIONS

POWER SOURCE	100-240 VAC 50/60 Hz
COMPATABILITY	ELORAN, CHAYKA
LORAN DATA CHANNEL (LDC)	EUROFIX, 9TH AND 10TH PULSE
SIZE (1RU)	48.3 x 40.6 x 4.4 cm 19 x 16 x 1.75 in
INPUTS / OUTPUTS	1 PPS
CONNECTIVITY	ETHERNET, USB, HDMI