MODEL 2238 / MODEL 2240

Air Traffic Control Systems

MODEL 2237
Portable Integrated Receiver

The Model 2237 combines highly accurate, reliable performance with low maintenance and ease of use.

PRODUCT OVERVIEW

The Selex ES Model 2237 Portable Integrated Receiver is a lightweight, rugged unit specifically designed for installation and maintenance of Instrument Landing System (ILS) and Very-high frequency Omni-directional Ranging (VOR) facilities. It features high accuracy, rock-solid stability, and exceptional ease of use. The unit operates over a wide range of environmental conditions and runs from either external power or internal rechargeable batteries. No additional battery pack is required. On a busy run- way, ease of use is perhaps the most desirable feature of the Model 2237 PIR. A large, information-rich display combines with a simple push-button interface to provide quick and easy opera- tion.

Within each of the Localizer, Glide Path, and VOR screens, the user may select display of modulation details, select input source (RF or audio), and enter station configuration. A status bar in each screen shows current station, input source, and bat- tery information. Dedicated push buttons provide quick access to the home screen, display brightness control, and settings. Adding to its ease of use, the Model 2237 is a highly trans- portable and self-contained unit that is small enough to fit in an airline overhead compartment. The battery charger is built-in and is powered from the same universal power adapter that can power the unit. The antenna is stored within the cover of the unit along with the power adapter. There are no external pieces to damage or misplace. With a recommended calibration interval of 4 years, the Model 2237 PIR ensures high availability to confirm the continued safe operation of the precision approach equipment between periodic flight checks and low life cycle costs due to extended calibration periodicity.

FEATURES

- **Large, backlit LCD display with brightness control –** maximum readability under all ambient light conditions
- **Weather resistant push-button controls, with tactile feedback –** large buttons with positive tactile feedback provide ease of use, even in environments where gloves are used
- **Intuitive user interface –** simplified interface with clear menu structure combine with dedicated function keys to provide quick and easy operation
- **Audio Input Auto Ranging –** automatic input range sensing protects the unit, simplifies operation, and insures time efficient use in a field environment
- **Integral RF / Audio frequency detection –** simplifies field testing, eliminating the need for expensive stand-alone RF and audio frequency counters
- **Battery-saving Standby mode -** low power consumption mode is entered by manual push-button control or configurable inactivity timer (inactivity timer may also be disabled)
- **Rugged Metal Case with Integral Shielding -** durable, field proven metal case with state-of-the-art surface protection provides immunity to external RF interference, ensures long service life, and maximizes long term return on investment
- **Support for software update via USB port –** should software updates or upgrades become available, the 2237 software can be loaded from a USB drive into the unit
- **Optional automotive power adapter and monopod support**

SPECIFICATIONS

MECHANICAL:

Weight: (receiver unit with cover, antenna, and AC power adapter): 9.45 lbs (4.29 kg)

Dimensions: 8.6"H x 11.0"W x 7.0"D
(21.87cm H x 27.94cm W x 17.78cm D)

ENVIRONMENTAL:

Operating Temperature: -20°C to + 55°C
Relative Humidity: 0% to 90%

MEASUREMENT CAPABILTIES:

Instrument Landing System (Localizer/Glideslope) Measurements:

- Difference in Depth of Modulation (DDM)
- Sum of Depth of Modulation (SDM)
- Percent Modulation (90, 150 and 1020 Hz (1020 Hz Localizer only)
- Audio Tone Frequency
- RF Level (dBm)
- RF Frequency Error

VHF Omni-Directional Range (VOR) Measurements:

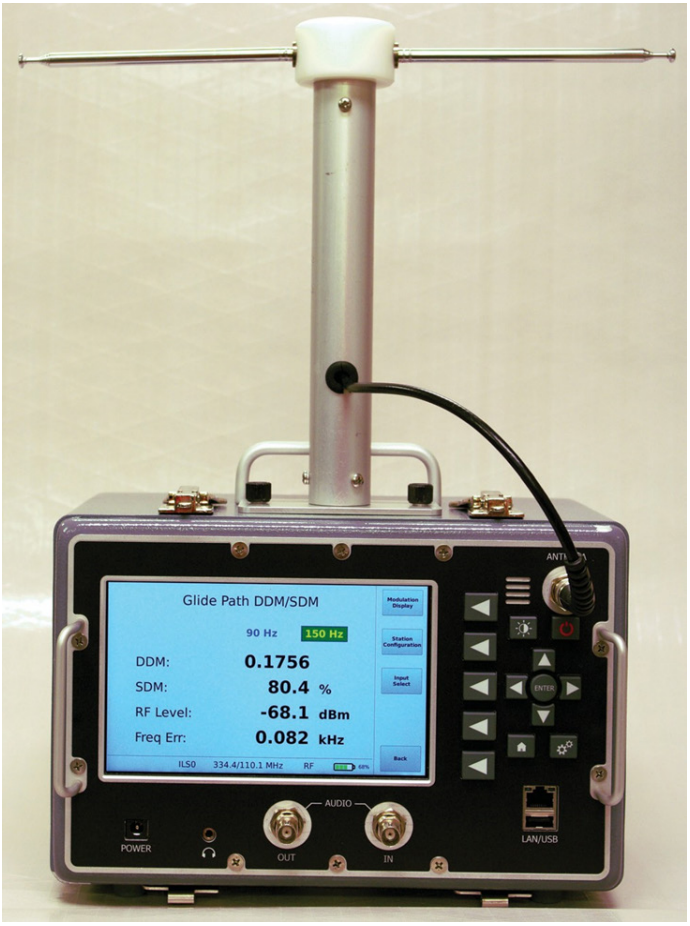
- Azimuth Bearing
- Modulation (30, 9960, and 1020 Hz)
- Audio Tone Frequency
- FM Deviation
- RF Level
- RF Frequency Error

OPERATING FREQUENCY RANGES:

Localizer: 108.10 to 111.95 MHz (40 channels)
Glideslope: 329.15 to 335.00 MHz (40 channels)
VOR: 108 to 117.95 MHz (160 channels)

OPERATIONAL PERFORMANCE & VOLTAGES:

Frequency Stability: ±2.5 ppm
RF Signal Level:+30 dBm to -90 dbm
Maximum Input: Receiver will withstand continuous 1 watt CW RF input without damage
Audio Signal Level: 40 mV to 10 V peak-to-peak
Primary Power: Universal (90-260 VAC, 50-60Hz) AC to DC external power adapter
Internal Battery: Lithium Ion, Rechargeable, charger integral to equipment



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