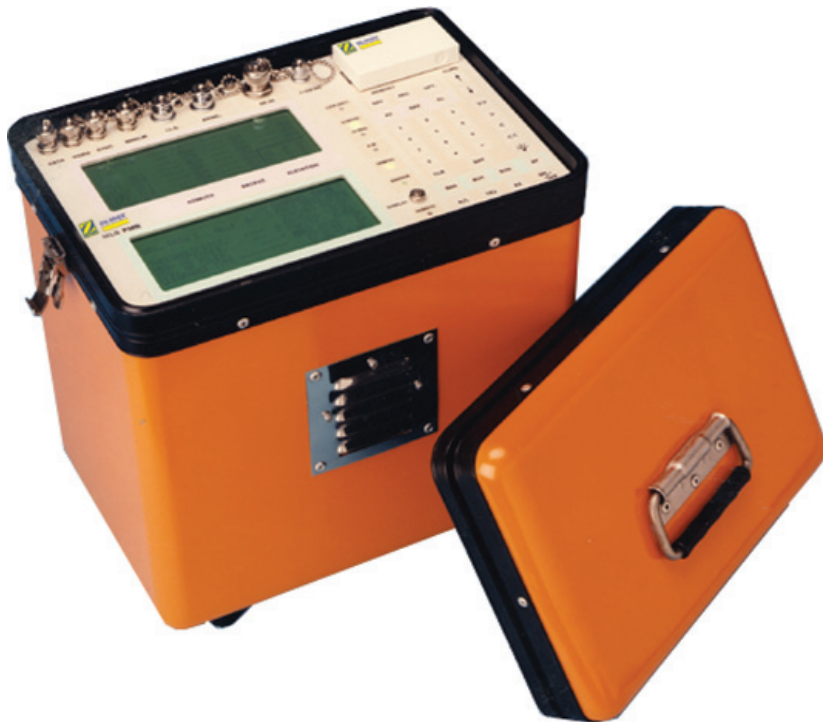


PMR - Portable MLS Receiver



IN-SNEC®

The Portable MLS Receiver is intended to be used by technical staff involved in the Microwave Landing System (MLS) station manufacturing and testing.

Its compact designs and rugged constructions make it ideal for transportable applications and severe environments.

Test and calibrate your MLS station

Main Functions

- Microwave Landing System station manufacturing and testing as specified by the AWOP
- Tuning and commissioning at factory premises
- MLS ground inspection
- MLS Flight inspection

Main Features

- Conforming to AWOP/13 -WP/619 recommendations
- ARINC 429 interface for remote control
- Manual axis selection azimuth, back azimuth, elevation
- Up to 23 records can be stored & recalled for printing (RS232)
- Automatic calibration with the Portable MLS Generator (PMG)

Main Benefits

- Excellent ergonomies
- Easy to use : only RF connection and channel selection after power on
- High accuracy
- High ruggedness for harsh environment (FAA-G-200e)
- Fully autonomous with internal battery
- Fully and automatically checked and calibrated with the IN-SNEC® Portable MLS Generator (PMG)

Options

- Antenna kit including deployable mast (4.5 m), tripod and RF cable
- 19" rack mount kit

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Technical specifications

MLS functions

Elevation	rate	39 Hz
	beamwidth	0.5° to 3°
	angle	-1.5° to 29.5°
Approach azimuth	rate	13 Hz
	beamwidth	0.5° to 5°
	angle	-61.5° to +61.5°
High rate azimuth	rate	39 Hz
	beamwidth	0.5° to 5°
	angle	-41.5° to 41.5°
Back azimuth	rate	6.5 Hz
	beamwidth	0.5° to 5°
	angle	-41.5° to 41.5°
Basic Data Words	words	1 to 6
Auxiliary words	words	A1 to A5

Measurement

Angles	
resolution	0.001°
MLS functions	azimuth back azimuth elevation
on display	10 rd/s filtered PFE, CMN computed
Level resolution	1 dB
MLS functions	azimuth, back azimuth elevation
signals / functions	preamble, OCIs, clearances, beam

Accuracy

Path following error (PFE)	< 0.003°
Control motion noise (CMN)	< 0.005°
Absolute level	±1 dB after calibration
Beam relative level within a same function	± 1 dB

Dynamics

Sensibility	
for decoded rate = 86%	< - 100 dBm
for decoded rate = 100%	< - 94 dBm
Level measurements	- 105 to -13 dBm
Angle measurements	- 100 to - 13 dBm

BF outputs

Amplitude demodulation	logarithmic law (5 dB/V)
Synchronization	(TTL) choice among all simulated functions
Demodulated Data	(TTL) code NRZ-L, rate 15.625 kbit/s

Remote control

Protocol ARINC 429

PMR

Portable MLS Receiver

MODEL REFERENCE

PMR	SM50549201
MLS antenna kit	SM50687801
19" rack mounting	SM52097501

Environmental conditions

Operating temperature range	-30°C to +50 °C
Relative humidity	0% to 95% non condensing

Primary power requirement

AC	
voltage	115 V & 230 V ±10%
power consumption	40 W
DC	
voltage	10 -18 V
power consumption	30 W
Internal battery with built-in charger	
charge indurance	1.5 hours
charge time	15 hours

Mechanical characteristics

Dimensions	W x H x D	13.34x9.25x4.68" (339 x 235 x 373 mm)
Weight		33 lb (15kg)
Shocks		30 g rms
Vibrations (random)		3 g rms
Drops		H = 7.87" (20cm)

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