



# NORMARC 7710 NAV Analyzer

For the perfect touchdown



The NORMARC 7710 NAV Analyzer is used to adjust, verify and record parameters of ILS (Localizer, Glide Path, Marker Beacon) and VOR ground systems according to ICAO 8071. The NAV Analyzer's functionality substitutes instruments like ILS/VOR receivers, modulation meters and frequency counters. It incorporates all ILS and VOR channels selectable without any tuning or equipment changes. Facilitates measurement of

1. Carrier and Audio frequencies, Modulation Depth (DDM and SDM), RF level and Ident/Voice
2. Phase measurements of 30Hz tones for bearing information of VOR

The NAV Analyzer is a portable, battery-operated weatherproof unit to be used outdoors, in a vehicle or inside the equipment shelter. It is supplied with a dipole antenna with a unipod support and coaxial cable. The analyzer has a rough outdoor design and is protected against damage during transport.

The NAV Analyzer is based on a microprocessor/controller architecture and digital signal processing with storage functions. Full control from a remote system by use of network technology is possible.

The user interface is a graphical display (GUI) with function keys. Night conditions is supported. Audio jack for Identity/Voice monitoring is incorporated.

## FACILITY FEATURES

1. Low weight and small size
2. More than 6 hours operation from fully charged condition
3. Charging from 10.8-30V DC source directly or 110-240V using external adaptor
4. Automatic tuning to the input signal
5. User named measuring points/sequences and selectable measurement intervals/rates
6. Auxiliary connector for external event button
7. Dual-band antenna
8. Performance analyzes of ILS Localizer, Glide Path, Marker Beacon and VOR
9. Supports CAT III ILS Localizer in accordance with ICAO 8071
10. All controls and measurements available through external interfaces
11. RS-232 or Ethernet interface for data access via personal computer
12. Data storage capacity for minimum 1 hour of continuous measurements



Parameters	Localizer	Glide Path	VOR	Marker Beacon
Frequency range	108.1-111.95 MHz	328.6-335.4 MHz	108.0-118 MHz	75 MHz
Channel spacing	50 kHz	150 kHz	50 kHz	
Frequency tolerance	0.0004%	0.0004%	0.0004%	0.0004%
RF level range	0 dBm to -80 dBm	10 dBm to -70 dBm	0 dBm to -80 dBm	0 dBm to -50 dBm
DDM range	0-40%	0-80%		
DDM/Bearing error	Centring: 0.07% DDM	Centring: 0.15% DDM	0.3°	
SDM/Mod. depth range	0-95%	0-95%	10-50%	80-100%
SDM/Mod depth error	0.5% SDM	1% SDM	0.5% Mod depth	0.5% Mod depth
Ident/Voice freq. range	300-3000 Hz		300-3000 Hz	300-3000 Hz
Ident/Voice depth of modulation range	1-55%		1-55%	
Ident depth of modulation error	1% mod. depth		1% mod. depth	

Input connectors	BNC female
Output connector	Ident/Voice audio-jack Aux. Connector for Event button etc. Ethernet connector RS-232 connector
User Interface	Graphical colour 5.5" LCD Keys for selecting functions and parameters
Power supplies	NiMH rechargeable battery, (min. 6 hours use) External charger, 110-240V AC
Power input	10.8VDC to 30VDC
Dimensions (WxHxD)	240 x 160 x 140 mm
Weight	4.5 kg
Antenna type	Dipole, telescopic
Antenna mast height	2.9 m (1.6 m retracted) with level
Antenna cable	RG-223, 4 m
Temperature range	-10°C to +50°C
Protection	IP54