

Sat-meter

MSK 115

21710020



For optimal alignment of digital satellite systems in a handy, compact design.

Display of signal strength and quality allowing optimal alignment of the antenna. In addition, the device features spectrum and constellation measurement for further monitoring.

A default transponder and satellite list makes the meter easy to operate. Users can also set and save transponders. Software updates also allow the measuring instrument to be programmed for other client-specific satellite transponders.

The measuring instrument is easy to operate and consequently the ideal tool for antenna installers during the installation of satellite systems.



Features

- Measuring range: 950-2150 MHz
- Input level range: 44-84 dB μ V
- Input data rate: 1-45 MSymbol/s
- Level and BER measurement
- BER bar display either linear or logarithmic
- QPSK constellation diagram
- Display of the frequency spectrum with selectable span (60, 120, 240, 480, 960 and 1200 MHz)
- Display of carrier-to-noise ratio (C/N)
- Display of optical signal quality and signal strength
- Acoustic signalling to facilitate antenna alignment
- Quick test for LNB current
- Level display: either in dB μ V or linear in 256 steps
- 64 transponders/32 satellites can be set
- Transponder can be set by the user
- Satellite parameters can be easily adjusted or changed through software updates
- Measurement results can be saved to the device
- Measurement results can be transferred to a PC through a USB cable
- Supply voltage through built-in battery
- Battery capacity is sufficient for over three hours of continuous operation
- Battery charging via external 12 V DC supply
- LNB supply voltage: 14/18 V, max. 500 mA
- Control signal: DiSEqC™1.0, 22 kHz, SCR single-cable system control signals for ASTRA 19.2° and Hotbird 13.0°
- RF input: 75 Ω , F-type, with loop-through output
- USB interface for software updates and data transmission
- Includes carry case, RF cable with F-type plug, 230 V/12 V power supply unit, 12V car power charger cable, USB connection cable, instruction manual with safety notes
- Dimensions W x H x D (mm): 205 x 68 x 137
- Weight: approx. 1.5 kg

Technical data

Type		MSK 115
Order no.		21710020
Frequency range	MHz	950-2,150
Impedance	Ω	75
Level range	$\text{dB}\mu\text{V}$	44-84
Input symbol rate	MSymb/s	1-45
LNB supply voltage	V	13-18
LNB operating current	mA	Max. 450
Ports		
Input/output	-/ Ω	F-type/75
USB port		Socket, type B
Power supply	mm	Hollow socket, 2,1/1,5
Battery power supply		
Integrated battery (6-cell NimH)	mAh	3,300
Battery voltage	V	12
External power supply unit		
Input voltage	V_{AC}	100-240
Output voltage	V_{DC}	12
Output current	A_{DC}	1.7
Operation modes		
Spectrum display		
Displayed bandwidth	MHz	60, 120, 240, 480, 960, 1,200
Frequency display	MHz	10,700-12,750
Signal level display		
Carrier level	$\text{dB}\mu\text{V}$	44-84
Measurement accuracy	dB	± 1.5
C/N display		
Signal-to-noise ratio	dB	Max. 20
Measurement accuracy	dB	± 1.5
MER/BER display		
MER	dB	Max. 20
Measurement accuracy	dB	± 1.5
BER		Min. 3,12 E-3
Measurement accuracy	ppm	500
Additional operation modes		
Constellation diagram		4 QPSK quadrants
Histographic representation		Carrier display in single-cable systems (up to 9 carriers)
General		
Temperature range operation/storage	$^{\circ}\text{C}$	0 to + 60/-20 to +85
Protection class (front panel)		IP 54
LC display (Dot matrix, backlighted)	Pixel	128 x 64
Memory: Transponders/satellites/polarisations		64/32/H-V
DiSEqC™ commands (prestored): Sat-IF single-cable system		16 planes Single-cable LNB, matrix for 1 to 2 satellites (Astra or Astra/Hotbird)
Dimensions (W x H x D)	mm	205 x 67.4 x 137
Weight	kg	1.5