

Measuring instruments**KATHREIN****Signal meter Sat/TV/FM****MSK 125/MR** 21710023**ART. 9/40101**

The MSK 125/MR has been designed as a portable multiple standard selective signal meter for analogue TV, Sat and FM Radio and for the digital standards DVB-C, DVB-S(2) and DVB-T/DVB-H including the return path.

A high-quality transreflective 5.7" TFT VGA resolution colour screen enables video display of analogue and digital MPEG 2 and MPEG 4 TV signals in top quality. The built-in CI slot also allows coded programmes to be displayed ¹⁾.

Measured values are read on a two-line, 22-digit LC display.



The calibrated spectrum function features a sweep rate of approx. two seconds. The featured meter memory bank enables one to save up to 100 meter settings.

Up to 100 measurement results can also be saved on an SD card and then exported to a PC via the USB port.

Features

- Level measurement of analogue and digital TV signals (TV, Sat, FM, DVB-S(2), DVB-C, DVB-T, DVB-H (2k, 8k mode)) incl. return path
- Video display of analogue and digital TV signals (MPEG-2 and MPEG-4)
- Measurement and display of BER/MER
- 5.7" TFT colour display, transreflective (640 x 480 pixels)
- Two-line, 22-digit LC display
- Spectrum display
- Sat finder function
- Acoustic signalling to facilitate antenna alignment
- Level display in dB μ V or in dBmV
- Automatic measurement range selection
- Direct frequency and channel entry
- Measurement and display of remote feed current
- Audio carrier measurement (TV)
- NICAM audio carrier and BER measurement
- Audio control with built-in loudspeakers
- Stereo headphone jack
- Return path measurement
- DiSEqCTM1.0 control signal
- SCR single-cable system control signals (with software update in development)
- Memory for signal meter settings
- Measurement value memory (SD card), with data readout via USB
- Data logging
- Software update interface
- Bi-directional Scart socket (CVBS, audio)
- Mains or battery operation
- Delivery scope:
 - Carry case for MSK 125 and accessories, carrying strap, plug-in power supply unit, BNC test cable with adaptors, USB cable, SD card



Measuring instruments

KATHREIN

Signal meter Sat/TV/FM

Technical data

Type		MSK 125/MR
Order no.		ART. 9/40101 21710023
RF range		
Frequency ranges	MHz	TV: 4 ... 862, Sat: 920 ... 2,150, FM: 87 ... 108
Frequency resolution	kHz	TV/FM: 50, Sat: 125
TV standards		B/G, I, D/K, M, N
DVB standards		DVB-S(2): QPSK, 8PSK DVB-C: 64 QAM, 128 QAM, 256 QAM, DOC 64 QAM (only MER and Offset) DVB-T/H: COFDM, 2k, 8k; QPSK, 16 QAM, 64 QAM
TV system		
Colour standards		PAL/NTSC in colour; SECAM in b/w
Audio		FM, NICAM and AM audio
Digital video decoding		MPEG-2; MPEG-4
Level measurement section		
Level measurement range	dB μ V	30 ... 120
Measurement accuracy	dB	< 2
Measuring bandwidth	MHz	TV/FM: 0,25; DVB-S/DVB-C/DVB-T, Sat analogue: 6
Detector analogue		TV: peak value; Sat/FM: mean value
Detector digital		Mean value
BER/MER/carrier offset measurement		DVB-S(2)/DVB-C/DVB-T/DVB-H
Display		
Monitor		TFT colour display 5,7", 640 x 480 pixels, transfective
LCD		Alphanumeric 2 x 22 characters (131 x 22 pixels), bargraph, illuminated
Sat finder (acoustical)		Level-dependent tone
Power supply		
Li-Ion accumulator	V/Ah	11.1/6.45
Mains (plug-in power supply unit)	V/Hz/W	100-250/50-400/100
DC external	V	10.8-14.0
Remote feeding		
Remote feed voltage	V	0, 5 ... 20
Remote feed current	mA	Max. 600
Control signals	kHz	22, DiSEqCTM1.0, Simple DiSEqC™, SCR single-cable system (with software update in development)
Connections		
RF input (impedance)	Ohm	F-type coaxial socket with BNC adaptor (75)
AV input/output		Scart (CVBS, Audio)
MPEG-4 (HDTV) output		HDMI
Headphone socket	mm	Jack, 3.5
USB port		Socket, type 2; USB 2.0
Flash memory card		SD, max. 1 GByte
Serial interface		RS 232, Sub D, 9-pin
CI interface		PCMCIA
DC voltage supply 12 V		DC-XLR socket
General		
Safety standards		Protection class I (AC/DC power supply), VDE EN 61010
Dimensions (W x H x D)	mm	258 x 297 x 75 (100 with battery compartment)
Weight	kg	Ca. 3.8

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