

Portable meter for Sat/TV



Compared with the fully-equipped MSK 130, the MSK 30 is a reasonably-priced meter at entry level, which, with its comprehensive basic equipment, provides the installer with an all-round device for daily use in a working environment. The MSK 30 is designed as a portable multi-standard meter for DVB-S/-S2, DVB-C, DVB-T/-T2 and analogue TV. The unit is equipped with a high-quality 4.3" TFT colour touch screen which enables analogue and digital video display in MPEG-2 and MPEG-4 and in the very highest quality. The intuitive operational concept enables rapid measurements in the SAT and TV range.

Overview of features

- Level measurement of analogue and digital TV signals (DVB-S/-S2, DVB-C, DVB-T/-T2, TV)
- Video display of analogue and digital TV signals
- BER/MER measurement and display
- Constellation diagram display
- 4.3" touch TFT colour display (480 x 272 pixels), splash-proof
- Battery life of at least three hours
- Spectrum display
- Satellite-finder function
- Acoustic signal tone for antenna alignment
- Level display can be selected in dB μ V, dBmV or dBm
- Automatic measurement range selection
- Direct frequency and channel input
- Measurement and display of the remote feed current
- Audio carrier measurement (TV)
- Audio control with built-in loudspeakers
- DiSEqC™1.2 control signal
- SCR/SCD2 single cable system control commands
- Data rate measurement of services in the DVB transport stream
- Memory for meter settings
- Software updates possible via universal USB port
- Data Logger function
- Video input (Cinch)
- Mains or battery operation

Type	MSK 30
Order no.	21710048
RF Tuner	
Frequency range DVB-C/-T/-T2, TV [MHz]	47-880
Frequency range DVB-S/-S2 [MHz]	950-2150
Frequency resolution [kHz]	Cable/TV/FM: 50, Sat: 100
TV standards	B/G, I, D/K, M, N
Digital satellite receiver DVB-S/-S2	
Modulation process	QPSK, 8PSK
Code rate (FEC) DVB-S	1/2, 2/3, 3/4, 5/6, 7/8
Code rate (FEC) DVB-S2	1/2, 2/3, 3/4, 5/6, 8/9, 9/10, 2/5, 3/5
Input symbol rate [MS/s]	2-45 (DVB-S), 2-45 (DVB-S2)
BER	1E-6 ... 2E-2 (pre Viterbi)
MER [dB]	25
Digital terrestrial TV receiver DVB-T/-T2	
DVB-T modulation process	QPSK, 16/64 QAM
DVB-T2 modulation process	QPSK, 16/64/256 QAM
FFT mode DVB-T [k]	2, 8
FFT mode DVB-T2 [k]	1, 2, 4, 8, 16, 32
Guard interval DVB-T	1/4, 1/8, 1/16, 1/32
Guard interval DVB-T2	1/4, 1/8, 1/16, 1/32, 1/128, 19/128, 19/256
Code rate (FEC) DVB-T	1/2, 2/3, 3/4, 5/6, 7/8
Code rate (FEC) DVB-T2	1/2, 2/3, 3/4, 5/6, 7/8, 3/5, 4/5
Channel bandwidth [MHz]	6, 7, 8
BER	1E-6 ... 1E-2 (pre Viterbi)
MER [dB]	36
Digital CATV receiver DVB-C (J83 A)	
Modulation process DVB-C [QAM]	16/32/64/128/256
Input symbol rate [MS/s]	2-6.999
BER	1E-9 ... 1E-2 (pre RS)
MER [dB]	40

TV system	
Colour standards	PAL, SECAM, NTSC
Audio	FM, NICAM and AM sound
Digital image decoding	MPEG-2; MPEG-4/AVC
DVB transport stream	
Data rate	Services can be measured in Mbit/s
Level measurement section	
Level measurement range [dBµV]	30 ... 95
Measurement accuracy [dB]	Typ. ± 1.5
Analogue detector	TV: Peak value, Sat/FM: Mean value
Digital detector	Mean value
Display	
Monitor	4.3" touch TFT colour display (480 x 272 pixels)
Sat-finder (acoustic)	Level-dependent beep
Power supply	
Lithium/ion rechargeable battery [Ah/Wh/V]	2.6/19/7.4
Mains (plug-in power supply unit) [V]	100-240 V (50/60 Hz)
DC external [V]	12
Remote feeding	
Remote power feed [V]	5/13/18
Remote feed current [mA]	Max. 500
Control signals	22 kHz, DiSEqC™1.2, SCR/SCD2 single cable system
Connections	
RF input (impedance) [Ω]	75 (F coaxial socket)
Video input	Analogue video (Cinch)
USB port	1 x socket, USB 1.1
DC supply 12 V [mm]	Hollow plug socket 2.5/5.5
General	
Safety standards	Protection class II (AC/DC power supply unit), VDE EN 61010
Dimensions (W × H × D) [mm]	185 x 125 x 44
Weight [kg]	approx. 0.7