



## MAN 5180

Radio monitoring antenna

MF

HF

0.5 MHz – 30 MHz

The MAN 5180 is an active, omnidirectional radio monitoring antenna developed for intercepting vertically polarised sky and ground waves across 0.5 to 30 MHz. With an installation time of just a few minutes the MAN 5180 is well suited for semi-mobile operation. A ground network ensures high performance on almost any surface.

### TECHNICAL HIGHLIGHTS

- active high-sensitivity antenna with low noise amplification
- mobile and lightweight antenna with ground network
- sophisticated environmental parameters like IP55 protection and temperature range for operation -40 °C to +55° C

### CUSTOMER ADVANTAGES

- clear signal monitoring with less distortion and high SNR
- fast assembly time of less than 10 min on almost any surface makes it well suited for semi-mobile use
- antenna can be used in almost any climate conditions

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MAN 5180	
Frequency range	0.5 MHz - 30 MHz
System sensitivity	1 MHz - 4 MHz typ. 1 $\mu$ V/m 4 MHz - 30 MHz <100 nV/m (bandwidth 1 Hz)
VSWR	1.5 : 1
IP2	$\geq 70$ dBm
IP3	$\geq 40$ dBm
Antenna type	active
Antenna configuration	monopole
Polarisation	vertical
System impedance	50 $\Omega$
BITE	n/a
Operating temperature	-40° to +55° C
Storage temperature	-40° to +70° C
Environmental protection	IP 55
Power consumption	24 V DC, I <sub>max</sub> = 0.25 A
Weight	8 kg
Diameter	6 m
Height	2300 mm
Required space	40 m <sup>2</sup>
Installation	self supporting
Set-up time	10 minutes