

Technical data

Mobile	MR 451	MT 451	MTK 451
Receiver			
Frequency ranges	428 ... 470 MHz 466.49 ... 466.65 MHz ¹⁾ 468.350 ... 469.150 MHz ¹⁾	428 ... 470 MHz 466.49 ... 466.65 MHz ¹⁾ 468.350 ... 469.150 MHz ¹⁾	428 ... 470 MHz 466.49 ... 466.65 MHz ¹⁾ 468.350 ... 469.150 MHz ¹⁾
No. of channels	1	1	1
Receiver principle	double superheterodyne	double superheterodyne	double superheterodyne
Modulation mode	FM (F2D, F3E)	FM (F2D, F3E)	FM (F2D, F3E)
Deviation	±4 kHz	±4 kHz	±4 kHz
Frequency stability	±5 x 10 ⁻⁶	±5 x 10 ⁻⁶	±5 x 10 ⁻⁶
AF response	300 Hz ... 3 kHz	300 Hz ... 3 kHz	300 Hz ... 3 kHz
Sensitivity	Typ 20 µV/m	Typ 20 µV/m	Typ 20 µV/m
Antenna	Frame antenna	Frame antenna	Frame antenna
Digital and AF component			
Call numbers	2- ... 6 digit	2- ... 6 digit	2- ... 6 digit
Call addresses	4	4	4
Message capacity	40 alphanumeric characters	40 alphanumeric characters	40 alphanumeric characters
Memory capacity	8 x 40 characters	8 x 40 characters	8 x 40/6 x 40 characters
Display	10 digit dot matrix LCD	10 digit dot matrix LCD	10 digit dot matrix LCD
Alert tone	2 730 Hz tone	2 730 Hz tone	2 730 Hz tone
Volume at 30 cm	≥ 84 dB (A)	≥ 84 dB (A)	≥ 84 dB (A)
Call duration (normal call)	5.5 sec, can be cancelled early	5.5 sec, can be cancelled early	5.5 sec, can be cancelled early
Transmitter			
Frequency ranges	-	456.49 ... 456.65 MHz ¹⁾ 149.89/151.07 MHz ¹⁾ 160.../170... MHz ¹⁾	456.49 ... 456.65 MHz ¹⁾ 149.89/151.07 MHz ¹⁾ 160.../170... MHz ¹⁾
RF output	-	50 mW ERP	50 mW ERP
Antenna	-	Telescopic: 150 mm (UHF) Telescopic: 300 mm (VHF)	Telescopic: 150 mm (UHF) Telescopic: 300 mm (VHF)
Dialler			
Transmission principle	-	-	DTMF
Call number (tel)	-	-	Up to 16 digit
Speed dial memory	-	-	4 x 16 figures
General data			
Dimensions ²⁾ W x H x D	56 x 84 x 20 mm	58 x 130 x 25 mm	58 x 130 x 25 mm
Weight ²⁾	79 g	168 g	170 g
Power supply	Cartridge with 1 built in Li ion battery or 1 Mignon AA battery ⁴⁾	Cartridge with built in Li ion batteries or 2 Mignon AA batteries	Cartridge with built in Li ion batteries or 2 Mignon AA batteries
Ave. operating time with Li ion batteries: with Mignon AA:	Approx. 80 hours ³⁾ Approx. 800 hours ⁴⁾	Approx. 50 hours Approx. 400 hours	Approx. 20 hours Approx. 160 hours
Permissible temp. range	-10 °C ... +55 °C	-10 °C ... +55 °C	-10 °C ... +55 °C
For Ex versions			
EU type test certificate Approvals	in preparation Ex 94.C.2074 EEx ib IIC T6 (T _a ≤ 40 °C)/T4	TÜV 01 ATEX 1740 X ⊕ II 2G EEx e ib IIC T6	TÜV 01 ATEX 1740 X ⊕ II 2G EEx e ib IIC T6
Conformity with R&TTE directive 99/5/EU	b-501 008	b-501 033 (MT 451 V) b-501 034 (MT 451 U)	b-501 032 (MTK 451 V) b-501 031 (MTK 451 VS/VS L) b-501 034 (MTK 451 U/S/L)
Marking	CE	CE 0700	CE 0700

1) Valid in Germany. Other frequencies on request

2) With standard battery cartridge, MR 451 without clip

3) Explosion-proof version: approx. 50 hours

4) Explosion-proof version: 1 cell MN 9100, operating time approx. 280 hours