

MTP 5-HE



MTP 5-HE Typically temperature inversions that cause bad air quality events occur well below 600 m, if they are higher than this there is not normally a problem. However, in a valley or close to mountains, higher inversions can trap pollutants over an urban or industrial area.

MTP 5-HE is the 'extended range' version of the MTP 5-H and has similar design and features. However, it measures up to 1000 m by using a more sensitive and narrower bandwidth design of microwave radiometer with the frequency slightly shifted to 'see' further into the atmosphere. A consequence of this is that the altitude resolution and the temperature accuracy are not quite as good as the MTP 5-H and there is some reduction of accuracy in heavy rain or fog.

Specifications

Altitude range	0 - 1000 m
Altitude resolution	50 - 120 m (increases with altitude)
Displayed height interval	50 m
Temperature accuracy, adiabatic	± 0.3 °C to ± 0.4 °C (increases with altitude)
Temperature accuracy, inversion	± 0.8 °C to ± 1.2 °C (increases with altitude)
Measurement interval, minimum	3 minutes
Central measurement frequency	56.7 GHz
Field of view	3 °
Operating temperature range	-40 °C to +50 °C
Self-calibration	Automatic before each measurement
Environmental effects	Slight decrease in accuracy in heavy rain or fog
MTP 5 supply	12 VDC, 120 W max
AC-DC power supply unit (included)	115/230 VAC, 1A/2A, 50/60 Hz
Communication	RS 232 to PC (not included) running operating software
Software, Windows™	Operation of MTP 5, data storage and analysis, graphical display

Article

Part number

MTP 5-HE Extended Range version, 0 - 1000 m

3309003

Distribution

MTP 5 is designed and produced by **SKB ATTEX Ltd** of Moscow and is distributed exclusively by Kipp & Zonen worldwide (with the exception of Russia and the CIS)

Accessories for MTP 5-HE

Part number

Heat Shield

For MTP 5-HE in direct sunlight in hot climates

0015963

Tripod Floor Stand

For MTP 5-HE, height 45 cm (needs adapter kit)

0353710

Height Extension Tube

Extends height by 60 cm (needs adapter kit)

0353750

Tripod Adaptor Plate Kit

To fit MTP 5-HE to tripod stand or height extension tube

0353760