

# MTP 5-P



**MTP 5-P** (Polar) uses the same microwave radiometer and electronics as the MTP 5-H. However, it is designed to provide much improved altitude resolution in the first 100 m range. This is important for measurements over snow and ice, where temperature gradients can be very steep over small height increments. Similar effects can be observed over desert surfaces.

To achieve this, a much narrower field-of-view is required, 1° or less. Therefore, a larger capture area is needed to maintain the performance. A parabolic dish antenna has the radiometer attached directly to it and is rotated in very small angular steps. The housing is much larger than that of MTP 5-H and MTP 5-HE and the Teflon™ cover does not rotate, so dirt is not compensated for and the cover must be kept clean.

## Specifications

Altitude range	0 - 600 m
Altitude resolution	10 - 50 m (increases with altitude)
Displayed height interval	10 m
Temperature accuracy, adiabatic	± 0.2
Temperature accuracy, inversion	± 0.5
Measurement interval, minimum	3 minutes
Central measurement frequency	59.6 GHz
Field of view	1 °
Operating temperature range	-50 °C to +45 °C
Self-calibration	Automatic before each measurement
Environmental effects	Precipitation on cover reduces accuracy
MTP 5 supply	115/230 VAC, 4A/2A, 50/60 Hz
Communication	2x 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-P** Polar version, 0 - 600 m

**3309004**

### 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)