

AP Series Radar Wind Profilers

The Scintec AP Series Wind Profilers offer a new level of performance as this has been the requirement for wake vortex and wind shear nowcasting on airports.

Using UHF frequency in combination with RASS, wind speed and temperature can be derived with a very high temporal resolution and near 100% data availability from less than 100 m to more than 1,000 m height.

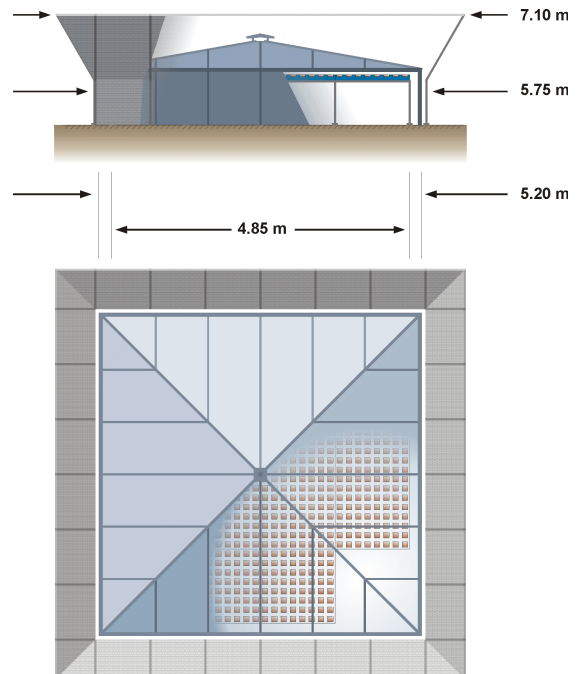


Three models are available: AP10, AP100 and AP1000. All models utilize a high patch-density array antenna with very low side lobes. An AP1000 with RASS is installed for future operational use at Frankfurt Airport, the second largest airport in Europe.



Model	AP10	AP100	AP1000
Max. height	2 - 5 km	3 - 6 km	4 - 8 km
Min. height	< 100 m	< 100 m	< 100 m
Resolution	37.5 - 500 m	37.5 - 500 m	37.5 - 500 m
Averaging time	15 sec - 60 min	15 sec - 60 min	15 sec - 60 min
Frequency	1290 MHz	1290 MHz	1290 MHz
Antenna	phased array	phased array	phased array
Elements	256	256	768
Antenna area	2.4 m x 2.4 m	2.4 m x 2.4 m	4.8 m x 4.8 m
Antenna gain	> 28.5 dB	> 28.5 dB	> 32 dB
Phases	8	8	8
Beams	5	5	5
Peak power	600 W	1200 W	2400 W
IF processing	digital	digital	digital

AP1000 Antenna with Scatter Shield

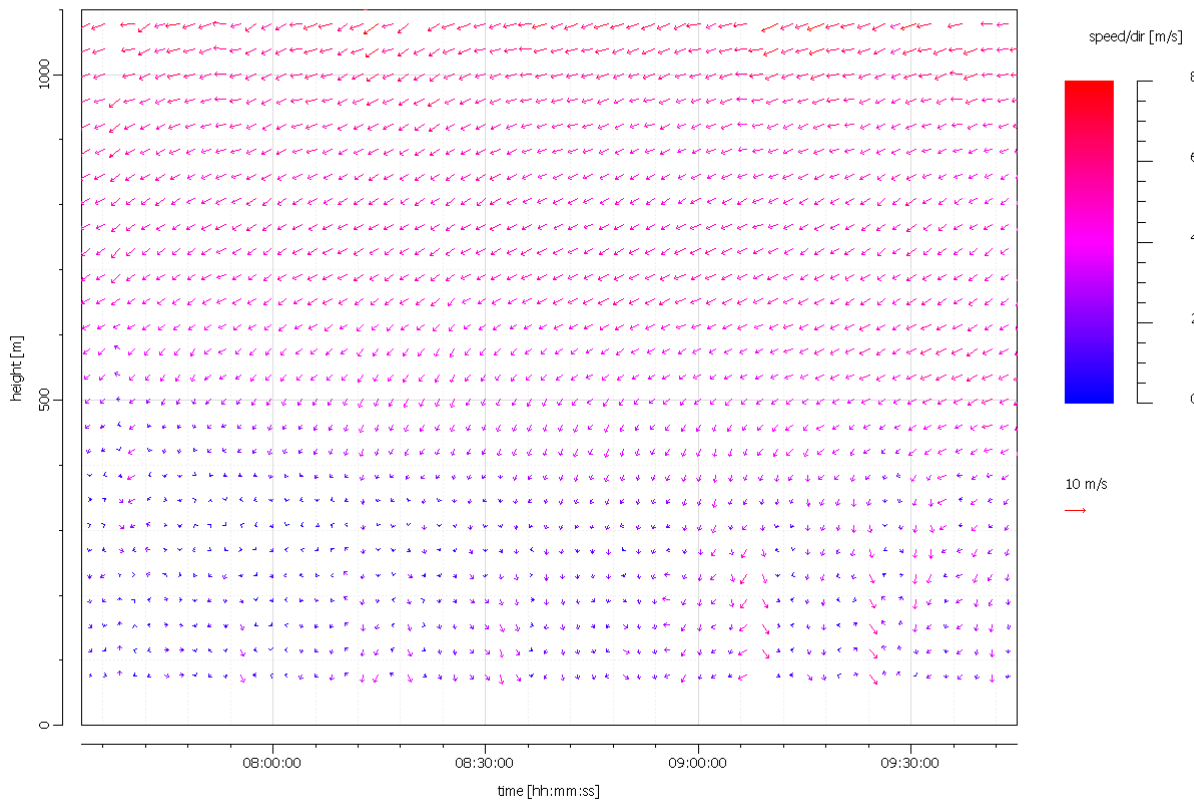


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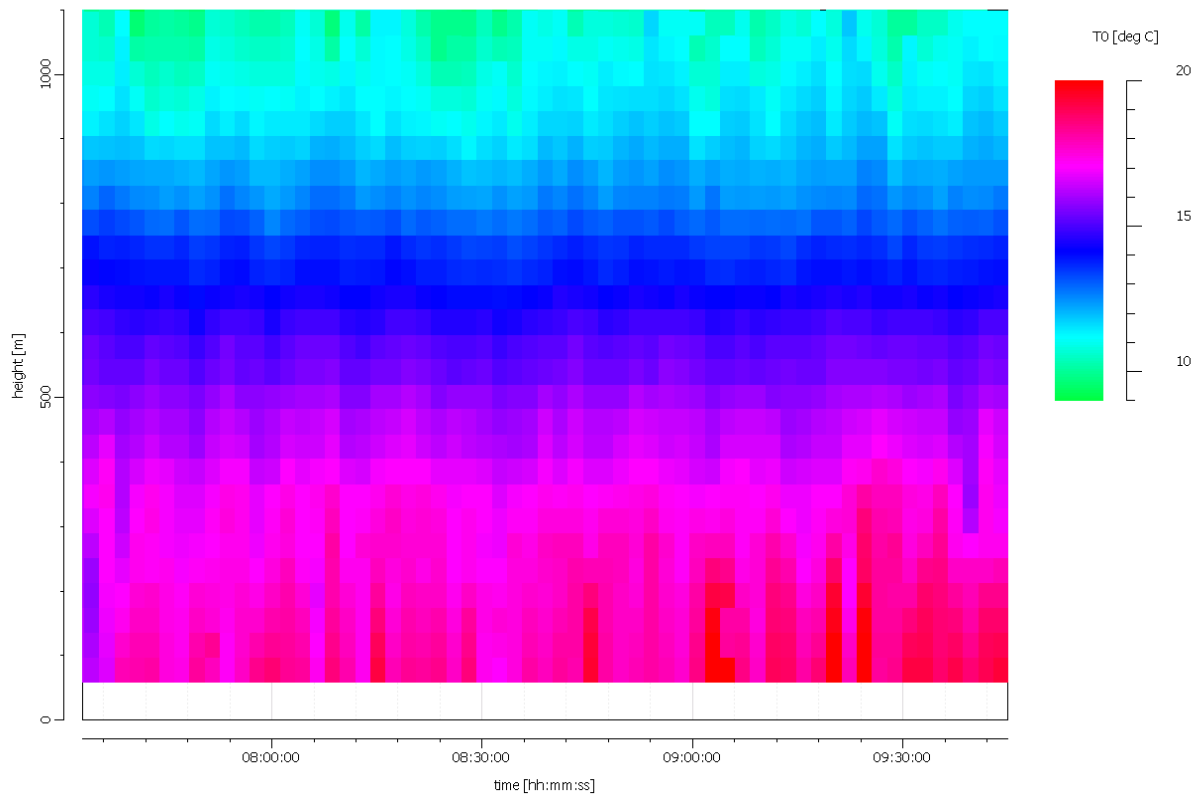
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