

Micro Rain RADAR MRR | MRR-PRO

The Micro Rain Radar MRR at 24 GHz is a unique meteorological radar profiler for Doppler spectra of hydrometeors in height ranges 15 m ... 6000 m. The high resolution in time and height enables the MRR to monitor the genesis of frozen hydrometeors, the melting zone (bright band) and the formation of rain drops. With the derived rain rate the MRR offers a calibration of weather radar. The MRR has been adapted even for monitoring of avalanches and volcanos.

[➔ MRR-2](#) [➔ MRR-PRO](#) [➔ MRR-PRO Dome](#) [➔ MRR Variants](#)



Details

The newly developed hardware of the **MRR-PRO** combines the unique Micro Rain Radar technique of the MRR-2 and a high performance processing unit which significantly improves all operating parameters. The system allows precise measurements of the Doppler spectra caused by hydrometeors and yields the rain rate, liquid water content and drop size distribution for the liquid phase. All computations including automatic melting zone detection are integrated in the outdoor electronics. The system has been evolved to be a powerful stand-alone profiler for investigations of precipitation and cloud dynamics with very low installation and logistics effort.

The **MRR-PRO** can be easily installed virtually independent of site conditions. An optional heating for the offset antenna is available in order to avoid coverage by ice or snow. Adjustment of the system parameters by user via remote access link is possible. The system requires only very low maintenance and has been used for routine measurements even at adverse sites.

The software of **MRR-PRO** offers a convenient web-interface for system monitoring, data retrieval and file management. For integration to wide monitoring networks various data protocols e.g. NETCDF are implemented.

- Advanced processing hardware for Micro Rain Radar technique
- Vertical profiling of drop size distribution, rain rate and liquid water content
- Stand-alone system with completely integrated data evaluation
- Up to 254 height ranges
- Minimum height resolution 10 m
- Minimum averaging intervals 1 s
- Automatic melting layer detection
- Improved attenuation correction
- Convenient user interface
- Data protocols include NetCDF
- Web interface

[Question](#)

[Downloads](#)

MRR-PRO
Datasheet 2024/07/05 [Save](#)

MRR-2 / MRR-PRO
Tutorial 2018/02/05 [Save](#)

Product Groups

Sonic Anemometer uSonic
Micro Rain RADAR MRR
Doppler Cloud RADAR MIRA
Doppler SODAR PCS 2000
Temperature Profiler RA55
Doppler Wind LIDAR Streamline
Wind Ranger 100/200
Data Logger

Contact

METEK Meteorologische Messtechnik GmbH
Fritz-Straßmann-Str. 4
25337 Elmshorn
Germany
Tel +49 (0)4121 4359-0
Fax +49 (0)4121 4359-20
Mail info@metek.de

Information

Imprint
Privacy Policy
Terms of Sales

This website uses cookies to improve your experience. [Click 'Accept'](#) if you agree. [Cookie settings](#)

[Reject](#) [Accept](#)