

ROHDE & SCHWARZ

Make ideas real



PRECISE MONITORING ANYWHERE INNOVATIVE TRANSPORTABLE MONITORING STATIONS



Effective monitoring on demand: Our precise, transportable monitoring systems offer advanced technology for versatile applications. Combining portability with precision, the R&S®TMS Compact and R&S®TMS Lightweight series provide accurate direction finding and monitoring. Ideal for temporary missions requiring a rapid and effective response with minimal infrastructure. Both versions are based on the R&S®UMS400 universal monitoring system and are available in two standard configurations.

Challenges

- ▶ Operations close to the “action”
- ▶ Filling in blind spots in stationary system coverage

Advantages

- ▶ Minimal infrastructure requirements
- ▶ High degree of flexibility in site selection/easy deployment
- ▶ Robust, weather-proof design for mission times ranging from several hours to weeks

Typical tasks

- ▶ Automated temporary observation for occupancy measurements and license compliance verification
- ▶ Interference investigations and illegal transmitter detection
- ▶ Monitoring before and during major events

Precise transportable monitoring systems from Rohde&Schwarz deliver advanced technology for a wide range of monitoring applications. The R&S®TMS Compact and R&S®TMS Lightweight series combine portability with precision, ensuring highly accurate direction finding (AoA and TDoA¹) and active monitoring capabilities.

Key facts

Compact series:

- ▶ Designed for temporary missions with limited infrastructure
- ▶ Equipped with a wind-up stand to elevate the antenna to approximately 2.6 meters
- ▶ Featuring remote-controlled, robust and weatherproof systems and tool-less deployment

Lightweight series:

- ▶ Ideal for short-term missions at any location
- ▶ Carbon tripod with a maximum antenna elevation of approximately 1.7 meters
- ▶ Battery-powered solution in a single transport box for easy handling and rapid setup

Transportable monitoring systems



R&S®TMS Compact DF

- ▶ Direction finding with compact DF antennas
- ▶ Integrated GNSS and electronic compass
- ▶ Robust wind-up stand for improved antenna elevation



R&S®TMS Compact MON

- ▶ Spectrum monitoring with active monitoring antennas
- ▶ External GNSS antenna needed
- ▶ Robust wind-up stand for improved antenna elevation

Both TMS series are based on the R&S®UMS400 universal monitoring system, which supports a wide frequency range and is compatible with various antennas. This versatility makes them suitable for diverse operational needs and provides users with reliable and precise monitoring and direction-finding performance. Designed to enable quick and effective responses with limited infrastructure, these systems offer the ultimate combination of mobility, precision and robustness, making them indispensable for today's surveillance missions.

Optional feature, TDoA requires integration into a monitoring network with other time-synchronized stations

Benefits and key features

► High precision and versatility:

The R&S®TMS Compact and R&S®TMS Lightweight series deliver precise direction finding (AoA and TDoA¹) and active monitoring, making them suitable for a wide range of applications and operational needs.

► Portability and easy handling:

These systems are designed for high mobility. The R&S®TMS Lightweight series is battery-powered and fits into a single transport case for quick setup. The R&S®TMS Compact series features a wind-up stand that elevates antennas for enhanced signal reception with tool-less assembly on site.

► Robust and weatherproof:

Built for outdoor use in various environments, the R&S®TMS Compact series stations are robust and weather-resistant, ensuring reliable performance in challenging conditions even in medium-duration missions. Typical use cases include monitoring before and during major events, interference hunting of sporadic emissions or temporary site observation.

► Efficiency with limited infrastructure:

The R&S®TMS Lightweight series stations are ideal for short-term, mobile missions. These systems require minimal infrastructure, allowing for quick and effective deployment and response. They are typically used to detect illegal transmitters, for short-term interference investigations or security related missions.



R&S®TMS Compact MON
with 53 GHz extension

- Extends the R&S®TMS Compact MON system with microwave downconverters
- Monitoring frequency range from 20 MHz to 53 GHz
- Complete set up on a single wind-up stand



R&S®TMS Lightweight DF

- Direction finding with compact DF antennas
- Integrated GNSS and electronic compass
- Lightweight carbon tripod



R&S®TMS Lightweight MON

- Spectrum monitoring with active monitoring antennas
- External GNSS antenna needed
- Lightweight carbon tripod

Service at Rohde & Schwarz You're in great hands

- ▶ Worldwide
- ▶ Local and personalized
- ▶ Customized and flexible
- ▶ Uncompromising quality
- ▶ Long-term dependability

Rohde & Schwarz

The Rohde & Schwarz technology group is among the trailblazers when it comes to paving the way for a safer and connected world with its leading solutions in test & measurement, technology systems and networks & cybersecurity. Founded 90 years ago, the group is a reliable partner for industry and government customers around the globe. The independent company is headquartered in Munich, Germany and has an extensive sales and service network with locations in more than 70 countries.

www.rohde-schwarz.com

Sustainable product design

- ▶ Environmental compatibility and eco-footprint
- ▶ Energy efficiency and low emissions
- ▶ Longevity and optimized total cost of ownership

Certified Quality Management

ISO 9001

Certified Environmental Management

ISO 14001

Rohde & Schwarz training

www.training.rohde-schwarz.com

Rohde & Schwarz customer support

www.rohde-schwarz.com/support



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Precise monitoring anywhere: Innovative transportable monitoring stations

Data without tolerance limits is not binding | Subject to change

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