

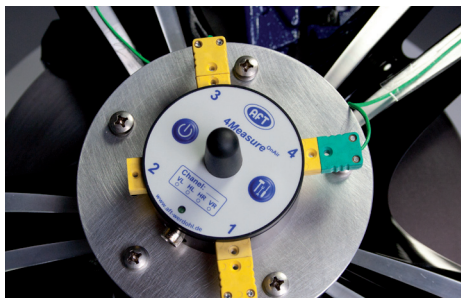
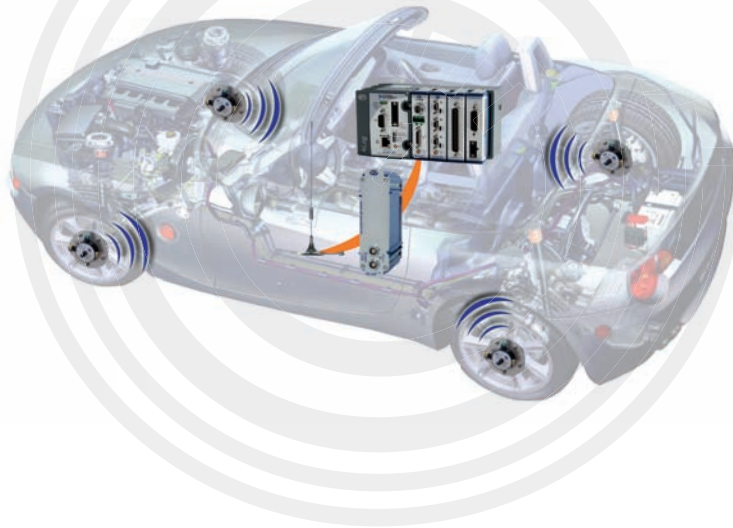


4Measure^{OnAir}

Modular Telemetry System for
Measuring the Temperature of
Rotating Components

Monitoring braking systems and transferring measuring data wirelessly — the reasons behind the development of the **4Measure^{OnAir}** telemetry system.

The two-part system is comprised of the **4Temp^{OnAir}** measuring module and the **4Link^{OnAir}** receiver.



What are the benefits of 4Measure^{OnAir}?

- ✓ Wireless signal transfer
- ✓ Can be used up to 350 km/h
- ✓ Rapid exchange of test components
- ✓ Wear-free and therefore cost-effective
- ✓ Extremely short set-up times when exchanging test objects
- ✓ No noise generation
- ✓ No temporary data buffer; instead the data is directly synchronised and offers reliable data throughput

Where can 4Measure^{OnAir} be used?

The **4Measure^{OnAir}** telemetry system replaces classic slip systems for measuring temperature. Examples of use for the telemetry system are:

- ▶ Brake tests of cars, commercial vehicles, aircraft and rail vehicles
- ▶ Tire tests
- ▶ Testing of bearing temperatures
- ▶ Support when investigating acoustic phenomena





4Temp^{OnAir} – The Measuring Unit

- ▶ Four measuring inputs per module as standard for type K thermocouples
- ▶ Measurement range: -50 °C to +1.310 °C
- ▶ Sampling rate max. 40 Hz per channel
- ▶ Runtime > 8 h when on battery power
- ▶ 24 Bit A/D converter
- ▶ Frequency: 868 MHz (optional 915 MHz, 2,4 GHz)

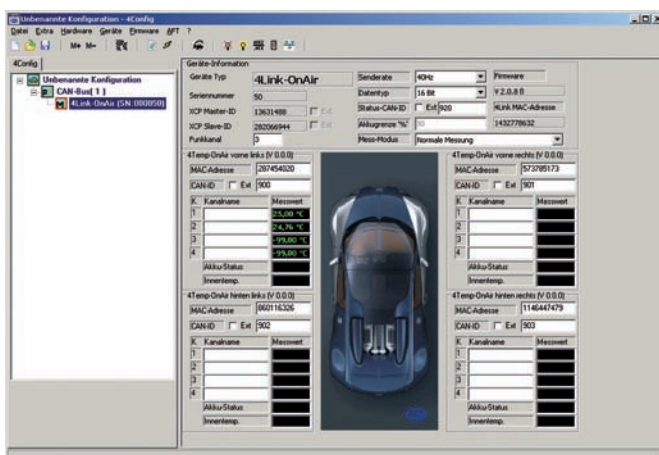


4Link^{OnAir} – The Receiver Unit

- ▶ Two connections for signal conditioning units of the 4Measure family 7-pol. or 9-pol.
- ▶ CAN-Controller acc. to CAN 2.0B
- ▶ Communication interface: CAN high speed acc. to ISO 11898 up to 1 MBit
- ▶ SMA jack for connecting antennas
- ▶ Visualization of the confirmation wireless messages
- ▶ Configuration with 4Config

Configuration software for 4Measure^{OnAir} —
As easy to operate as a multimeter

4Measure^{OnAir} in a practical case—
Convenient, safely stored, ready for use



4Measure - Mobile Measurement System On-/Off-Highway

Stand-alone measuring system for long-term trials and tests during the development process

Measuring modules and data loggers with CAN-based network technology

Scale the measuring system precisely to customers' requirements



AFT Atlas Fahrzeugtechnik GmbH

Gewerbestr. 14
58791 Werdohl, Germany
Phone: +49 23 92 8 09 - 0
Fax: +49 23 92 8 09 - 100

Internet: www.aft-werdohl.de
E-Mail: info@aft-werdohl.de

AFT Vertriebsbüro USA

Schaeffler Group USA Inc.
1750 East Big Beaver Road
Troy, MI 48083 (USA)
Phone: +1 248-528-4313
Fax: +1 248-528-4989

Internet: www.aft-detroit.com
E-Mail: info@aft-detroit.com

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