

MEDA RedSens

wireless



New

synchronic

fast

wireless

Modules comprising 3 measuring channels

Wireless measurement system for
trouble shooting, immission control and
sensitive installations

MEDA RedSens
wireless in 3-pack



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Synchronic wireless measurement (sensors integrated)	
TEDIASENS SN-I	
Measuring channels per knot, internal acceleration sensor, 3 axis	3 (X, Y, Z)
Measuring range (depending on internal sensor)	±10 g or ±100 g
Sensitivity (depending on internal sensor)	100 mV/g bzw. 10 mV/g
Frequency range	0,8 Hz to 4 kHz
Offset	10 mg
Broadband noise	1 mg
Resolution	24 bit
Dynamic	110 dB
Sampling method over all channels	simultaneously
Jitter	1 µs
Data rate	1 Mbit/s
Max. number of knots	1 - 10
Range free field 802.11g	140 m
Power supply	Internal rechargeable battery or power supply unit
Measuring time with rechargeable batteries	8 h
Battery charge time	3 h
Dimensions without antenna	(40 x 40 x 80) mm ³
Weight	270 g
Temperature range	0°C - 60° C
Safety class	IP67

Synchronic wireless measurement (external sensors)	
TEDIASENS SN-X	
Measuring channel per knot, input for external sensors	3
Signal input, selectable per channel	Voltage or IEPE
Coupling, selectable per channel	AC oder DC
Frequency range	DC to 4 kHz
Offset	1 mV
Broadband noise	20 µV@ ±1 40 µV@ ±10 V
Resolution	24 bit
Dynamic	110 dB
Sampling method over all channels	simultaneously
Jitter	1 µs
Data rate	1 Mbit/s
Max. number of knots	1 - 10
Range free field 802.11g	140 m
Power supply	Internal rechargeable battery or power supply unit
Measuring time with rechargeable batteries	8 h
Battery charge time	3 h
Dimensions without antenna	(114 x 64 x 30) mm ³
Weight	220 g
Temperature range	0°C - 60° C
Safety class	IP64

Measure and analyze with 1 to 30 channels



MEDARedSens is the only available WiFi-measuring-system with a 100% synchronicity for all attached channels. With up to 10 single modules, **MEDARedSens** represents the new full set for measurement, analysis and evaluation of

vibration, acoustics and building vibrations.

At the same time up to 10 single modules (knots), each with 3 axes can be used wirelessly: Sensor knots, each providing 3 external signal inputs and/or integrated triaxial acceleration sensors can be run simultaneously (mixed operation).

In the open air test site ranges of 150 m can be reached. The system, which covers a band width up to 4 kHz, lends itself to every application in engineering, building vibrations and in the automobile industry.

With 24 dB resolution and 110 dB dynamics even the tiniest indicators can be captured. The possibility of preselection between two input ranges allows the optimal adaption of **MEDARedSens** to a variety of applications.

The range of application goes from central, synchronic gathering of time signals and spectra to wireless measurement of natural frequencies – also on big structures.

MEDARedSens is delivered including the tools **machine diagnosis, building vibration, human vibration** and all of the mentioned features.

FFT- and octave-analysis, impulse-stimulation, time signal coverage, and continuous detection – all mentioned features are included in the system. Data for modal analysis can be reliably evaluated by means of the software ME' Scope.

All of the components used in **MEDARedSens** have been chosen systematically and are co-ordinated.

MEDARedSens is a reflection of long lasting experience and successful measurement practice.

Measurement technology for machine diagnosis

You can get additional equipment technology for engine diagnostics on request. Feel free to contact us in order to receive information about how to use and/or combine your own measurement equipment with MEDA.

Automotive engineering



Immission control



Energy



Mechanical engineering



Your advantage: wireless data transmission, 100% synchronized

Tools for machine diagnosis

Cascade

MEDARedSens is delivered including all the features mentioned above. With the **function cascade** you can measure cascades directly or create cascades and order curves during post-processing from measured time signals.

MEDARedSens Waterfall	
Key Features	
Parameter controlled data acquisition (resolution, time, manual, analog input signal, threshold value)	
Startup, Runout, Startup and Runout	
Representation in 2D, 3D, profile sections, order curves	
Max-value processing via orders	
Waterfall from recorded time data in post processing	
Color scale linearly or logarithmically	



^{¹)} depending on general set-up

Practical experience put into practice!