

# Indoor Environment Quality MI 6301 FonS



PTB Approved

Physikalisch-Technische Bundesanstalt  
Braunschweig und Berlin

Innerstaatliche Bauartzulassung  
Type-approval certificate under German law

Zulassungsmuster: METREL G.G.  
Lübbelstraße 77  
1254 Hertz  
SCHÖNEFELD

Rechtsbezug: § 13 des Gesetzes über die Mess- und Eichwesen (Eichgesetz)  
vom 23. März 1980 (BGBl. S. 711), zuletzt geändert am  
03.07.2009 (BGBl. I S. 1919)

Bauart: Integrierender Schallpegelmessgerät  
MI 6301 FonS Class 1

Zulassungszeichen:  
Approval mark: **21.21**  
**10.02**

Gültig bis: unbefristet

Anzahl der Seiten: 10

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Zertifizierer:  
Name: In Auftrag  
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The MI 6301 FonS is a professional sound analyser for sound measurements in accordance with EN 61672 standard Class 1 or Class 2. The MI 6301 contains usual A, C and Z frequency weightings and fast, slow and impulse time weightings and in addition the instrument has 2 independent measuring channels which can be set to different weightings. The MI 6301 FonS is ideal for spot checking different locations or performing long term analysis of an area. The PC software SoundLink LITE included in the standard set enables downloading, review, export and printing of test results while the optional PC SW SoundLink PRO enables full data analysis, charting and report generation.

## MEASURING FUNCTIONS

- LXy (Time weighted sound level);
- LXeq (Time average sound level);
- LXy<sub>max</sub> (Maximum time weighted sound level);
- LXy<sub>min</sub> (Minimum time weighted sound level);
- LXpeak (Peak sound level);
- LXE (Sound exposure level);
- Percentile sound pressure level;
- Real time 1/1 octave analysis;
- Real time 1/3 octave analysis.

## KEY FEATURES

- **Adaptable:** the instrument can simultaneously measure and calculate 19 different sound parameters (displaying maximum 6 at the same time).
- **Weighting:** A, C, Z frequency weightings and fast, slow and impulse time weightings in accordance with EN 61672 standard.

- **Dual measuring:** two independent sound measuring channels that can be set to different time and weighting settings.
- **Octave frequency analysis:** instrument performs real time octave and one third octave frequency analysis in accordance with EN 61260 standard.
- **Long lasting:** record up to 80 days worth of data.
- **Versatile:** can be used for spot checking of different locations or performing long investigations in a specific location.
- **One stop readings:** according to custom configuration instrument can display MAX, MIN, peak readings, equalised readings, channel 1 and channel 2 readings.
- **Logger:** logging memory module allows to save up to 2000 measurements with adjustable integration period.
- **Downloadable:** up to 2000 test results can be stored in the two level memory structure and then downloaded to the PC with the help of the PC software.

## APPLICATION

- Indoor or dry outdoor sound level measurement;
- Industrial sound measurement;
- Acoustic equipment testing;
- Band-pass and acoustic filter testing.

## STANDARDS

### Functionality

- EN 61672;
- EN 61260

### Electromagnetic compatibility:

- EN 61326

### Safety

- EN 61010-1

## TECHNICAL DATA

Function	Measuring range	Resolution	Accuracy
Sound level (A 1146)	30 dB ... 140 dB	0.1 dB	Corresponds to EN 61672 Class 1
Sound level (A 1151)	30 dB ... 140 dB	0.1 dB	Corresponds to EN 61672 Class 2
Sound probes A 1146 and A 1151	- Dynamic range: 80 dB - Frequency weighting: A,C, Zero - Time weighting: fast, slow, impulse		
COM port	USB		
Memory	2000 values		
Display	Graphical LCD with backlight, 160 x 160 dots		
Power supply	6 x 1.2 V rechargeable batteries, type AA		
Protection degree	IP 40		
Dimensions	110 x 85 x 220 mm		
Weight	0.56 kg		

## ORDERING INFORMATION









### MI 6301EU

- Instrument FonS
- Carrying case
- Sound probe, class 2, with foam windscreen
- Plastic shield for microphone
- Tripod adapter
- USB cable
- Power supply adapter
- 6 x NiMH rechargeable batteries, type AA
- PC SW SoundLink LITE
- Instruction manual
- Calibration certificate
- ISO calibration certificate for complete system

### MI 6301PS

- MI 6301EU
- Sound probe, class 1 (A 1146) instead of Sound probe, class 2 (A 1151)

## OPTIONAL ACCESSORIES

Photo	Order No.	Acc. description
	A 1165	Sound calibrator, class 2
	A 1083	Power supply adapter with 6 pcs NiMH batteries, type AA
	A 1160	Fast charger for 8 AA batteries with a set of 6 NiMH bat., type AA
	A 1169	Fast charger for AA, C, D and 9 V block batteries
	A 1130	Telescopic rod with 2.5 m cable
	A 1162	PC SW SoundLink PRO

### METREL D.D.

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Note! Photographs in this catalogue may slightly differ from the instruments at the time of delivery.  
 Subject to technical change without notice.