Class 3
Class 2

Accurate and low cost measurement of sound

testo 815, a low-cost sound level meter which meets the specifications of **Accuracy class 3**.

We recommend **testo 816** with **Accuracy class 2** for measurements with even higher accuracy specifications such as those carried out in the workplace.

- **Accuracy class 3** (DIN EN 60651) for **testo 815**
- **Accuracy class 2** (DIN EN 60651) for **testo 816**
- Low price
- Attachable microphone to avoid measuring errors e.g caused by the reflection of sound waves off human bodies
- User-friendly
- Large, dust-proof, user-friendly display
- A digital suppression of noise enables accurate measurements at low sound levels
- Calibration via keyboard. No screw-driver required
- Accurate quartz calibrator available as accessory

Accuracy class 3: testo 815
±1 digit,
±1.5 dB(A) absolute,
corresponding to DIN EN 60651 Class 3L

Accuracy class 2: testo 816
±1 digit,
±1.0 dB(A) absolute,
corresponding to DIN EN 60651 Class 2L

Common technical data

Sensor:
Accurate electret condensator microphone, 1/2"

Total measuring range:
30 to 130 dB(A)

Partial measuring ranges:
30 to 65 dB(A)
50 to 85 dB(A)
70 to 105 dB(A)
90 to 130 dB(A)

Time settings:
FAST 125 ms
SLOW 1 s

Pressure drift: -0.008 dB/mbar

Resolution: 0.1 dB(A)

Operating temperature: 0 to +40 °C

Storage/transport temperature: -20 to +70 °C

Battery lifetime: 15 h (alkali manganese)

Dimensions Instrument 168 x 72 x 27 mm

Weight: 170 g incl. battery

Housing material: ABS

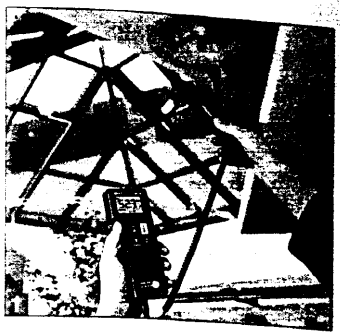
Display: LCD

Warranty: 1 year (measuring instrument)
1 year (microphone)

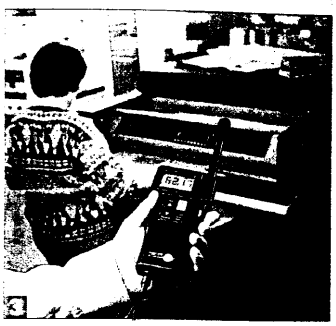
Applications:
The low-cost measuring instruments for ...

Class 2
- Monitoring noise levels, Class 2, (Fig. 1)
- Measuring noise levels in the workplace, Class 2
- Measuring factory machine noise level, Class 2 (Fig. 2)

Class 3
- Office noises, photocopiers, printers etc., Class 3 (Fig. 3)
- Air conditioning and ventilation plants, Class 3
- Noise abatement checks in general, Class 3







Microphone with wind cap



for uncomplicated monitoring

testo 815, Class 3 with microphone, battery, wind cap

Microphone with wind cap



for official measurements

testo 816, Class 2 with microphone, battery, wind cap

Recommended sets:



Description	Set 1	Part no.
① **testo 815**, sound level meter with case, **Accuracy class 3 for simple monitoring,** incl. microphone, battery, wind cap and Instruction manual		0563.8150 C

Description	Set 2	Part no.
① **testo 816**, sound level meter with case, **Accuracy class 2 for official measurements,** incl. microphone, battery, wind cap and Instruction manual		0563.8160 C
⑥ We recommend the calibrator for regular calibration		

dB (A)

Technical data: Calibrator

Principle of operation:	Quartz-controlled oscillator with a middle frequency of 1000 Hz at the speaker. Pressure chamber with input opening for **testo 815, testo 816** microphone
Sound pressure level:	94 dB(A) / 104 dB(A), adjustable
Frequency:	1000 Hz
Distortion factor:	< 3%
Battery:	9 V block (6F 22)
Battery lifetime:	25 h (alkali manganese)
Battery warning:	A red LED display warns of a low battery voltage
Warranty:	1 year

Ordering data for testo 815, testo 816 sound level meters

No.	Instrument and accessories		Part no.
1	**testo 815** meter	Accuracy class 3 for uncomplicated monitoring	0563.8150 C
2	**testo 815** meter	Accuracy class 3 for uncomplicated monitoring	0563.8151 C
3	**testo 816** meter	Accuracy class 2 for official measurements	0563.8160 C
4	**testo 816** meter	Accuracy class 2 for official measurements	0563.8161 C
5	Wind cap		0554.0010 C
6	Calibrator		0554.0009 C
7	ISO calibration certificate		0520.0111 C