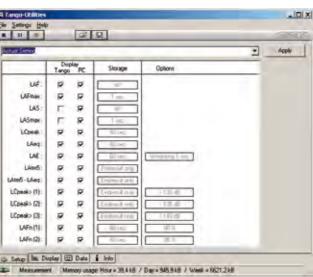


Technical Data

Accuracy	Class 1 according to IEC 60651/60804/61672	
Type approval	PTB approval applied for	Annual Summa
Meas. values	- Sound pressure level LAF, LAS	1.
	- Maximum sound level LAFmax, LASmax	UF.
	 Equivalent sound pressure level LAeq 	UAFmax:
	- Peak value L _{Cpeak}	LAS :
	- Sound dose LAE	LASmax LCoevel:
	- Taktmaximal level LAtm5	LAeq:
	- 3x LCpeak_exceedance (freely selectable)	LAE
Freq. weightings	A + C peak	LAWS:
Time weightings	Fast, Slow	LCpeako (1):
Ranges	30 140 dB (L _{Aeq})	UCDealk's (2):
U	60 143 dB (L _{Cpeak})	LCpeako (3): LAFn(1):
Resolution	0.1 dB	LAFn (2):
Display	Illuminated LCD:	Setup In Diplay
	- Measured value with 3.5 digits	-I Measurement
	- Bar graph in 5 dB steps	_
	< under-range	Tango-Utilit
	> over range	The Tango-l
	- Measurement time (hh:mm:ss)	and allows t
	- Battery status	measureme
	- Memory status	and STOP b
Microphone	1/2" electret measurement microphone,	Immediately
	50 mV/Pa (preamplifier non-detachable)	internal cloc
Calibration	Automatic with external 94 dB calibrator	that of the P
Storage cycles	Individually selectable for all values	Tango-Utilitie
Interface	USB	or higher -
Batteries	2x AA (1.2 1.5 V)	delivery. A l
Operating time	> 120 h (per set of 2x batteries 2.7 Ah)	Tango. After
Storage time	10 years for lithium batteries	meter is pow
Dimensions	190mm x 70mm x 32mm	motor to port
Weight	250 g (including batteries)	
Scope of delivery	Sound level meter, windscreen,	
	1.5m USB interface cable, manual,	
	mains power supply, carrying case,	
	Tango-Utilities software	
Option 1	Statistical level values + expansion to 8 MB	
Option 2	1/2" calibrator (Cal200)	
Option 3	Tripod with carrying case	
Option 4	SAMURAI_light software package	
	onmonni_light soltwale package	_



Tango-Utilities Software

The Tango-Utilities software shows all settings at a glance and allows the user to change these on the PC screen. The measurement can be controlled from the PC with the START and STOP buttons.

Immediately after connecting to the PC via the USB cable, the internal clock of the Tango is automatically synchronized with that of the PC.

Tango-Utilities can be installed on all PCs with Windows 2000 or higher – the installation CD is included in the scope of delivery. A USB port is necessary for data exchange with Tango. After attachment to the USB interface the sound level meter is powered from the PC.



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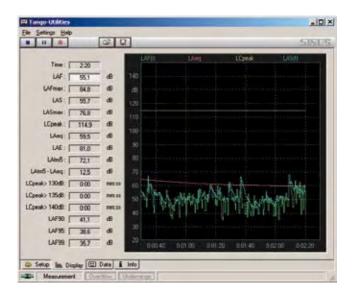


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TANGOTM

Integrating Sound Level Meter Type 1 according to IEC 61672

- General sound level measurements
- Noise measurements at the workplace
- Environmental noise measurements





TANGO[™] - entry-level sound level meter for all measurements necessary in workplace and environmental protection

The Tango[™] sound level meter is a compact Class 1 basic sound level meter according to IEC 61672 for workplace and environmental protection applications. Due to its intelligent software concept and its measuring range of 110 dB without switching to another range, Tango is still very easy to operate despite its high functionality. Using Tango, even inexperienced users are immediately able to correctly measure and interpret the current sound level.

Tango's high-quality, permanently polarized 1/2" microphone can be automatically calibrated with a standard acoustic calibrator. The measured value is shown on a back-lighted high-contrast display and is readable even over larger distances in sunlight or in darkness. The clearly arranged keyboard has a perceptible keystroke. Being based on state-of-the-art circuit technology, Tango

has an extremely low power consumption. Two batteries (1.2 ... 1.5 V, size AA) guarantee an operation time of 120 h and a storage time of 10 years (for lithium batteries). Therefore Tango is practically always ready for use.

The Tango sound level meter allows for simultaneous Aand C-frequency weightings as well as Fast (125 ms) and Slow (1 s) time weightings. In addition to the momentary sound level values (LAF and LAS) and the maximum sound level values over a given period (LAFmax, LASmax and LCpeak), Tango can also measure the LAeg, LAtm5 and LAtm5-LAeg values integrated over a given period.

All measurement values chosen in the Setup are computed simultaneously and one of these values is selected for display. After starting the integrating measurement all values are saved automatically. With the help of the USB interface and the Tango-Utilities software, the measured values can be read from the memory, saved and converted to a standard office format. Additionally, the software allows a user-defined setup to be defined and transferred to the device (measured values, storage cycles, percentiles).

Tango satisfies all requirements for a Class 1 sound level meter to be used for the following measurement tasks:

- Traffic and industrial noise measurements
- Neighborhood and recreation noise monitoring
- · Workplace noise measurements.

Modern technology combines utmost accuracy with simplest operation

The accuracy of the measurement may be considerably improved by calibrating the sound level meter before each measurement. This calibration also remains intact after switching off the device.

Because of its reasonable price, easy operation and small dimensions, Tango is the ideal instrument for all users whose measurement tasks require a Class 1 measuring device according to the IEC 61672 standard but without frequency analysis or audio recording.

A comprehensive memory management scheme allows different storage cycles to be selected for the various measurement values.

In order to prevent incorrect settings from being selected by inexperienced users, the Setup function can be disabled via the interface (Easy Operator Mode).

Type approval by the PTB (legal calibratability in Germany) has been applied for.

Workplace protection applications

For labor protection applications, in addition to the Cweighted peak value, the exceedance times for three freely-selectable LCPeak thresholds can be measured. This non-standard measurement allows the degree of noise exposure at a workplace to be captured much better than a measurement of the peak value alone.

Environmental protection applications

Option 1 allows three freely-selectable statistical values to be measured and saved. These LAFN% percentiles express what A-weighted level was exceeded in N% of the measurement time.

The internal memory is expanded to 8 MB with this option.

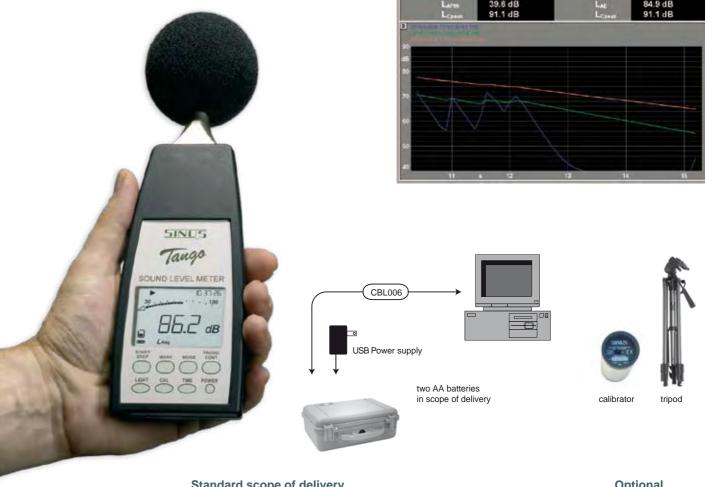
Option	Beschreibung
907000.1	TANGO sound level meter (basic version)
907010.6	Option 1: Level statistics & 8 MB memory
800630.0	Option 2: Tripod with case
800934.4	Option 3: Cal 200 Calibrator
801036.2	Option 4: SAMURAI light (Tango)

Highest ease of use via integrated software package: **TANGO-Utilities for Windows**

The Tango sound level meter may also be operated via USB interface. In this case the PC powers the device through the interface. The scope of delivery also includes a USB adapter for mains power supply.

The Tango-Utilities software included in the scope of delivery allows the operation and configuration of Tango via PC as well as the data transfer between the two devices. A separate window is displayed on the PC which allows easy setting of the parameters and rapid transfer of the stored measurement values. The file names and sizes of the saved measurement values are displayed for transfer or deletion.

The USB interface also enables the user to integrate Tango easily into a PC-based measuring system. In addition to the normal mode of operation whereby the measurement values are provided every 125 ms, in on-line operation the values can be retrieved at 64 Hz (15.6 ms).



Standard scope of delivery

Simplest complete solution for labor protection

Measurement according to the IEC 61672 standard

TANGO - system integration via control from the SAMURAI™ software package

The integration of TANGO into the SAMURAI software package allows one or several TANGO sound level meters to be controlled conveniently from a PC. In this SAMURAI light version, the sound level and level history windows of several TANGOs connected to a single PC can be displayed simultaneously.



Optional