

## KLIPPEL Analyzer System Price List

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### All prices net, EXW (tax, duty, transportation, support extra)

Item No.	Product	Explanation	Compat. HW	Spec	Price per unit	QC-EOL
<b>Measurement Hardware</b>						
2000-300	KA3 - Klippel Analyzer 3 (LSX) default configuration, Set	incl. Laser-Card, Speaker-Card, XLR-Card, power supply, cable set, project management software (dB-Lab 212)		H3	7.560 EUR	✓
2000-310	KA3 - Klippel Analyzer 3 (ALSX), default with internal Amp, Set	incl. Amp Card, Laser Card, Speaker Card, XLR Card, power supply, cable set, project management software (dB-Lab 212)		H3 H6	8.560 EUR	✓
2000-325	KA3 - Klippel Analyzer 3 (ALS) special configuration, Set	incl. Amp Card, Laser Card, Speaker Card, power supply, cable set, project management software (dB-Lab 212)		H3 H6	7.460 EUR	✓
2000-323	KA3 - Klippel Analyzer 3 (SX) special configuration, Set	incl. Speaker Card, XLR Card, power supply, cable set, project management software (dB-Lab 212)		H3	6.380 EUR	
2000-330	KA3 - Klippel Analyzer 3 (LX) EoL configuration, Set	incl. Laser Card, XLR Card, power supply, cable set, project management software (dB-Lab 212)		H3	6.190 EUR	✓
2000-324	KA3 - Klippel Analyzer 3 (L) special configuration, Set	incl. Laser Card, power supply, cable set, project management software (dB-Lab 212), recommended for wireless (e.g., Bluetooth®) speaker, headphone or noise and vibration testing		H3	5.040 EUR	✓
2000-333	KA3 - Klippel Analyzer 3 (LQ) EoL configuration, Set	incl. Laser Card, QC Card ( <b>Q: QC-Card with internal amplifier enabled</b> ), power supply, cable set, project management software (dB-Lab 212), recommended for dedicated LST application		H3 H11	6.600 EUR	✓
2000-336	KA3 - Klippel Analyzer 3 (LQe) EoL configuration, Set	incl. Laser Card, QC Card ( <b>Qe: QC-Card with external amplifier input enabled</b> ), power supply, cable set, project management software (dB-Lab 212), recommended for dedicated LST application		H3 H11	6.600 EUR	✓
2000-326	KA3 - Klippel Analyzer 3 (Q) EoL configuration, Set	incl. QC-Card ( <b>Q: QC-Card with internal amplifier enabled</b> ), power supply, cable set, project management software (dB-Lab 212)		H3 H11	5.420 EUR	✓
2000-335	KA3 - Klippel Analyzer 3 (Qe) EoL configuration, Set	incl. QC-Card ( <b>Qe: QC-Card with external amplifier input enabled</b> ), power supply, cable set, project management software (dB-Lab 212)		H3 H11	5.420 EUR	✓
2000-332	KA3 - Klippel Analyzer 3 (QX) special configuration, Set	incl. QC-Card ( <b>Q: QC-Card with internal amplifier enabled</b> ), XLR-Card, power supply, cable set, project management software (dB-Lab 212), recommended for EOL applications using Phantom Powered mics		H3 H11	6.520 EUR	✓
2000-337	KA3 - Klippel Analyzer 3 (QeX) special configuration, Set	incl. QC-Card ( <b>Qe: QC-Card with external amplifier input enabled</b> ), XLR-Card, power supply, cable set, project management software (dB-Lab 212), recommended for EOL applications using Phantom Powered mics		H3 H11	6.520 EURO	✓
4000-100	PA - Production Analyzer	QC hardware incl. cable set		H4	3.300 EUR	✓
Other KA3 Card configurations are available on request.						

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<b>Multi-Scanning Workbench (Hardware Components)</b> robot for the following measurements: SCN, NFS half-space 2pi driver and small loudspeaker system, BFS						
2530-001	Multi-Scanning Workbench	NFS and SCN Scanning Hardware for measuring transducers and systems of limited size in half-space (2pi) complete hardware platform for performing vibration, sound pressure, and B-Field scans External sensors not included: Please select laser set, microphone set, BFS sensor.		C5 C12	24.700 EUR	
<b>Software Packages for Multi-Scanning Workbench<sup>1</sup></b> <sup>1</sup> TRF Standard Software Module required						
The column "Compat.HW" informs about the device type to which the module can be licensed. *Module price per 1 license, running on 1 hardware unit or 1 USB dongle						
1000-900	TRF Standard - Transfer Function Measurement Standard	measurement of transfer function and harmonic distortion	KA3 DA2	S7	1.140 EUR	
2530-004	Software for Multi-Scanning Workbench - Acoustical Analysis (2pi), Set	NFS Visualization incl. NFS Comparison SW + NFS Field Identification SW + NFS Direct Sound Separation SW + NFS Near Field Analysis (2 licenses for KA3 or DA + USB Dongle) dB-Lab 212 required	KA3+Dongle3 DA2	C5 C12 A11	35.920 EUR	
2530-003	Software for Multi-Scanning Workbench - Mechanical Analysis, Set	SCN Analysis Software + SCN Robotics Software + SCN Import/Export Interface + SCN Radiation Area SD + SCN Sound Power / Directivity (SCN SW: 2 licenses for DA + USB Dongle, or for 2 USB Dongle - for use with KA3)	KA3+Dongle3 DA2	C5	16.270 EUR	
<b>Optional Software Modules for SCN Multi-Scanning Workbench</b>						
The column "Compat.HW" informs about the device type to which the module can be licensed. *Module price per 1 license, running on 1 hardware unit or 1 USB dongle						
2520-017	NFS Multi-Source Superposition Module	2pi: comfortable superposition for simulation of two-way / three-way speaker systems 4pi: comfortable scanning of multiple transducers of a loudspeaker array (Multiplexer recommended)	KA3 DA2 + Dongle3	C8	3.380 EUR	
2520-032	NFS Export Module	Far Field Export Amplitude/Phase Data (EASE) / Holography Parameter Export	KA3 DA2 + Dongle3	C8	8.250 EUR	
<b>Vibrometry Postprocessing Software Modules*</b>						
The column "Compat.HW" informs about the device type to which the module can be licensed. *Module price per 1 license, running on 1 hardware unit or 1 USB dongle						
1001-108	RMA - Rocking Mode Analysis	detection of the root-cause of rocking in microspeakers and other transducers (inhomogeneous stiffness, mass or B-field distribution) dB-Lab 212 or higher required	KA3 DA2  Dongle3	S49	4.710 EUR	
2510-043	Poly2SCN	merging 2D or 3D vibration-geometry data from Polytec scanning systems to the Klippel SCN Software (SCN Import/Export Interface also required) dB-Lab 212 or higher required	Dongle3	S45	1.810 EUR	
<b>SCN NF Add-On - Upgrade for SCN Vibrometer Set*</b> <sup>*</sup> SCN Vibrometer Set required						
2510-310	SCN Near Field Add-On Rev. 1.1, HW Set	Hardware add-on for the SCN Scanning Vibrometer System; microphone sensor arm, small baffle, cables, mounting parts External sensor not included: Please select 1/4" microphone set (Mic 40PP-10 IEPE Set recommended)	KA3 DA2 SCN	C12	3.100 EUR	

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Item No.	Product	Explanation	Compat. HW	Spec	Price per unit	QC-EOL
<b>SCN Software Update and SCN Analysis Software without SCN Hardware</b>		The column "Compat.HW" informs about the device type to which the module can be licensed. *Module price per 1 license, running on 1 hardware unit or 1 USB dongle				
2510-013	Update SCN Analysis Software (V1 to V2)	from SCN Software Version 1 to SCN Software Version 2 SCN Software Version 1 sold with dB-Lab 202 and below SCN Software Version 2 sold with dB-Lab 206 and higher	Dongle2	C5	2.290 EUR	
2510-017	SCN Analysis Software, Set	vibration and radiation analysis software (visualization, SPL, directivity, decomposition) + SCN Import/Export Interface + SCN Radiation Area SD + SCN Sound Power/Directivity, for 1 USB Dongle, <b>without SCN Hardware</b> (no SCN robotics incl., not for SCN measurements, SCN data analysis only - post-processing of SCN measuring results)	Dongle2	C5	12.450 EUR	
<b>Extension for Multi-Scanning Workbench – B-Field Measurement (BFS) (Cylindrical magnetic motor systems)<sup>2</sup></b> <sup>2</sup> rectangular or elliptic shape loudspeaker magnets: no automatic measurement, BFS Sensor: hand-held probe or measurement at fixed angles						
<b>BFS - Hardware Components</b>						
2510-211	BFS-Sensor	sensor for B-field measurement, accessory for SCN or stand-alone with KA3/DA2		A11	750 EUR	
2510-212	Reference Magnet for B-Field Scanner	approximately B = 180 mT, +/-0.5% @ 22.5°C +/-1°C, 70 x 32 mm, factory calibrated		A11	920 EUR	
<b>BFS - Software Module*</b>		The column "Compat.HW" informs about the device type to which the module can be licensed. *Module price per 1 license, running on 1 hardware unit or 1 USB dongle				
2510-210	BFS - B-Field Scanner Software	data acquisition & post processing (SCN Vibrometer Set required)	KA3 DA2	S47	3.740 EUR	

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Item No.	Product	Explanation	Compat. HW	Spec	Price per unit	QC-EOL
<b>NFS Holographic Near Field Measurement - Hardware Components for small and large loudspeaker systems and driver in full-space (4pi)</b>						
2520-023	Carousel Hardware (Extended size w/ 2 m Z-axis)	NFS Scanning Hardware for measuring small and large loudspeaker systems in full space (4pi) special version with 2 m Z-axis Please make sure to fulfil the requirement in regard to the room size.	KA3 DA2	C8	51.700 EUR	
2520-011	Carousel Hardware (Office size w/ 1 m Z-axis)	NFS Scanning Hardware for measuring small and large loudspeaker systems in full space (4pi) standard version with 1 m Z-axis	KA3 DA2	C8	48.700 EUR	
2520-025	NFS Carousel Baffle Rev. 1.0, Set	Hardware add-on for the Carousel Hardware to measure transducers mounted in a baffle in half space (2pi) incl. NFS Microphone Collision Sensor for NFS Rev. ≤ 1.0.7		C8	7.530 EUR	
<b>NFS Holographic Near Field Measurement (Software Components)<sup>1</sup></b> <small>The column "Compat.HW" informs about the device type to which the module can be licensed. *Module price per 1 license, running on 1 hardware unit or 1 USB dongle</small>						
<sup>1</sup> TRF Standard Software Module required						
1000-900	TRF Standard - Transfer Function Measurement Standard	measurement of transfer function and harmonic distortion	KA3 DA2	S7	1.140 EUR	
2520-031	NFS Basic Software Package (≥dB-Lab 212)	software module set: NFS Robotics SW, NFS Visualization SW + NFS Comparison SW, NFS Field Identification SW	KA3+Dongle3 DA2+Dongle3	C8	9.430 EUR	
2520-012	NFS Direct Sound Separation Module (formerly NFS Field Separation Module)	separation of the radiated sound from the reflections and room resonances, required to measure under non-anechoic conditions	KA3 DA2 + Dongle3	C8	20.690 EUR	
2520-018	NFS Baffle Measurement Module	Control software to measure 3D directivity of transducers mounted in a baffle (half space 2pi) with the NFS Carousel (requires NFS Baffle Hardware)	KA3 DA2	C8	5.920 EUR	
2520-013	NFS Near Field Analysis Module	NFS Carousel: Visualization of the sound pressure field in the nearfield (≤r meas.) SCN-NF: enables detailed evaluation directly in the near field	KA3 DA2 + Dongle3	C8	5.800 EUR	
2520-032	NFS Export Module	Far Field Export Amplitude/Phase Data (EASE) / Holography Parameter Export	KA3 DA2 + Dongle3	C8	8.250 EUR	
2520-017	NFS Multi-Source Superposition Module	2pi: comfortable superposition for simulation of two-way / three-way speaker systems 4pi: comfortable scanning of multiple transducers of a loudspeaker array (Multiplexer recommended)	KA3 DA2 + Dongle3	C8	3.380 EUR	
<p><b>Please select a suitable Measurement Microphone for the NFS Holographic Near Field Measurements (1/4" Mic Set) →</b>          Recommended for NFS HW Rev.1.09: Mic 301E 48V 1/4" Set - (max. SPL - max. bandwidth - free field mic, 3.2mV/Pa, max. 155dB, prepolarized cartridge, Phantom powered pre-amp; incl. mic, case, sensitivity chart, mic clip, 2 m XLR cable) - (2400-616)          Recommended for NFS HW Rev.1.08 and below: Mic 301E IEPE 1/4" Set - (max. SPL - max. bandwidth - free field mic, 3.2mV/Pa, max. 155dB, prepolarized cartridge, IEPE powered pre-amp; incl. mic, case, sensitivity chart, mic clip, 2m Microdot to BNC cable) - (2400-617)</p>						
<b>Additional components for measuring multiple DUTs at once: Multiplexer → See page 14</b>						
<b>Additional components for measuring Bluetooth DUTs: Bluetooth Converter → See page 15</b>						

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Item No.	Product	Explanation	Compat. HW	Spec	Price per unit	QC-EOL
<b>Polar Far-Field Measurement (POL)</b>						
<b>Software Module for Polar Far-Field Measurement*<sup>1</sup></b>		The column "Compat.HW" informs about the device type to which the module can be licensed. *Module price per 1 license, running on 1 hardware unit or 1 USB dongle				
<b>TRF Standard Software Module required</b>						
1001-103	POL - Polar Far Field Measurement Ver. 2	anechoic directivity measurement and visualization (CEA 2034) (TRF for dB-Lab 210 or higher and turn table required)	KA3 DA2	S41	2.570 EUR	
<b>Hardware Component for Polar Far-Field Measurement</b>						
2560-002	Turntable Outline ET250R2-3D Set	precision turntable for polar measurement, <b>high load - lower speed type</b> , incl. power cord, 3 m RJ45 Cat6 cable	KA3, DA2		on request	
2560-003	Turntable Outline ET50-3D Set	precision turntable for polar measurement, <b>high speed - lower load type</b> , incl. power cord, 3 m RJ45 Cat6 cable	KA3, DA2		on request	

Item No.	Product	Explanation	Compat. HW	Spec	Price per unit	QC-EOL
<b>Software Modules for Klippel Analyzer Systems</b>						
<b>Transducer Parameter Identification Modules*</b>		The column "Compat.HW" informs about the device type to which the module can be licensed. *Module price per 1 license, running on 1 hardware unit or 1 USB dongle.				
1000-400	LPM - Linear Parameter Measurement	identification of linear electrical and mechanical parameters	KA3 DA2	S2	1.140 EUR	
1000-403	MMT - Multipoint Measurement Tool	post-processing of the results of multiple LPM measurements (dB-Lab 210 and LPM required)	DA2 KA3	AN50	3.380 EUR	
4000-262	IMP - Impedance Task	QC-Task: linear parameter measurement (TS-Parameter)	KA3 PA+Dongle3	C3	1.140 EUR	✓
4000-265	TSX - QC Laser Fitting	Add-on for IMP Task: Thiele Small parameter identification with laser	KA3	C3	1.040 EUR	✓
2000-250	LSI3 Woofer - Large Signal Identification for KA3	identification of linear and nonlinear parameters of woofers in free air, sealed and vented enclosures	KA3	S52	6.770 EUR	
2000-260	LSI3 Micro-Speaker - Large Signal Identification for KA3	identification of linear and nonlinear parameters of micro-speakers, tweeters and compression drivers in free air, sealed and vented enclosures	KA3	S52	6.770 EUR	
4000-230	MSC - Motor + Suspension Check	QC-Task: fast measurement of voice coil offset and suspension asymmetry	KA3 PA+Dongle2 3	S13	5.980 EUR	✓
4000-260	BAC - Balanced Armature Check	QC-Task: test armature offset of BA drivers for earphones and hearing aids	KA3 PA+Dongle2 3	S39	6.290 EUR	✓
1000-212	LSI Woofer - Large Signal Identification Woofer for DA2	identification of linear, nonlinear and thermal parameters of woofer drivers in free air	DA2	S1	7.860 EUR	
1000-230	LSI Woofer + Box - Large Signal Identification Woofer + Box for DA2	identification of linear, nonlinear and thermal parameters of woofer drivers in free air, sealed and vented enclosures	DA2	S1	8.950 EUR	
1000-232	LSI Woofer + Box Upgrade for DA2	upgrade from LSI Woofer to LSI Woofer + Box	DA2	S1	1.090 EUR	
1000-220	LSI Tweeter - Large Signal Identification Tweeter for DA2	identification of linear, nonlinear and thermal parameters of tweeters, micro speakers, compression drivers in free air	DA2	S1	7.860 EUR	
1000-221	LSI Tweeter special for DA2	special price for LSI Woofer user	DA2	S1	3.500 EUR	

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### All prices net, EXW (tax, duty, transportation, support extra)

Item No.	Product	Explanation	Compat. HW	Spec	Price per unit	QC-EOL
<b>Frequency Response + Distortion Modules*</b>						
1000-900	TRF Standard - Transfer Function Measurement Standard	measurement of transfer function and harmonic distortion	KA3 DA2	S7	1.140 EUR	
1000-912	TRF Pro - Transfer Function Measurement Professional (≥dB-Lab 212)	measurement of transfer function, harmonic distortion and rub & buzz incl. TRF Voltage Stepping (STEP) dB-Lab 212 required	KA3 DA2	S8	2.750 EUR	
1000-913	TRF Pro Upgrade	upgrade from TRF Standard to TRF Pro	KA3 DA2	S8	1.610 EUR	
1000-800	DIS - 3D Distortion Measurement Standard	measurement of intermodulation distortion, harmonic distortion, DC displacement and compression (IEC 60268-5)	KA3 DA2	S4	3.990 EUR	
1000-810	DIS Pro - 3D Distortion Measurement Professional	DIS features + measurement of HI2 and amplitude intermodulation distortion	KA3 DA2	S4	5.200 EUR	
1000-811	DIS Pro Upgrade	upgrade from DIS to DIS Pro	KA3 DA2	S4	1.210 EUR	
1001-109	TBM - Tone Burst Measurement	peak SPL measurements using tone burst signals (CEA2010)	KA3 DA2	S44	2.290 EUR	
1001-115	MTON - Multi-Tone Measurement	Multi-tone fundamental and distortion, max SPL according to IEC 60268-21, ANSI/CEA-2010-B, ANSI/CEA-2034 considering MT-distortion, thermal and mechanical compression dB-Lab 212 required	KA3 DA2	S64	3.300 EUR	
4000-003	MTD Multi-tone Distortion Task	QC-Task: multitone-fundamental and distortion	KA3 PA+Dongle3	S68	1.810 EUR	✓
4000-240	ALD - Air Leak Detection	QC-Task: detect air leaks in transducers and audio systems	KA3 PA+Dongle2 3	S18	3.880 EUR	✓
4000-243	ALS - Air Leak Stethoscope	QC-Task: localization of air leaks in loudspeaker systems	KA3 PA+Dongle2 3	S30	3.380 EUR	✓
4000-263	SPL - Sound pressure based acoustic tests	QC-Task: measurement of frequency response, THD and Rub&Buzz	KA3 PA+Dongle3	C3	1.690 EUR	✓
4000-200	MHT - Meta Hearing Technology	Add-on for SPL Task: defect detection beyond human hearing	KA3 PA+Dongle2 3	S20	1.650 EUR	✓
4000-268	HI-2 - Weighted harmonic distortion	Add-on for SPL Task: amplitude response of weighted harmonic distortion components versus frequency (HI-2)	KA3 PA+Dongle3	AN7	1.030 EUR	✓
4000-245	EQA - Equalization + Alignment Standard	QC-Task: automatic or assisted adjustment of user-defined level or frequency response	KA3 PA+Dongle2 3	S33	810 EUR	✓
4000-270	DCX - Dynamic DC Check	Add-on for SPL and EQA Task: measurement of AC/DC displacement with laser (DC input modification of Production Analyzer Hardware required)	KA3 PA+Dongle3	S37	3.870 EUR	✓
4000-266	3DL - Spectrogram 3D Limits	Add-on for SPL Task: powerful and intuitive defect (Rub & Buzz) analysis based on auditory time/frequency (spectrogram) analysis dB-Lab 212 / QC7 or higher required	KA3 PA+Dongle3	S63	1.210 EUR	✓
4000-267	SAN - Spectrum Analysis (formerly Coherence)	QC-Task: FFT spectrum, frequency response, A-weighted SPL and distortion with/without noise generator or user-defined stimulus for noise & vibration or audio system testing	KA3 PA+Dongle3	S65	1.080 EUR	✓
2520-030	ISC - In Situ Room Compensation	correction filter for compensation of room influence	KA3 DA2	S62	1.450 EUR	

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<b>Simulation, Auralization Modules*</b>						
1000-300	LSIM - Linear Simulation	fast and comprehensive simulation of the linear transfer behavior of transducers and passive/active loudspeaker systems (dB-Lab 212 or higher required)	KA3 Dongle3	S58	3.080 EUR	
1000-310	SIM - Simulation	linear, nonlinear and thermal simulation	KA3 DA2 Dongle2 3	S3	4.310 EUR	
1000-601	SIM-AUR - Simulation Auralization	simulation and auralization of large signal speaker performance (music)	KA3 DA2 Dongle3	S24	5.200 EUR	

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<b>QC Standard / Basic Software for end-of-line testing (EOL)* (Versions of the QC Software for use with Klippel measurement hardware device (Klippel Analyzer or Production Analyzer required))</b>						
4005-001	QC STANDARD Software, Release QC7	full EOL-testing software for ultra-fast and complex measurements, incl. tasks (SPL, IMP, SAN, PP, IO), QC Start and dB-Lab 212	KA3+Dongle3  PA2+Dongle3	C3	3.990 EUR	✓
4005-200	QC Basic Software, Release QC7 (electro-acoustic)	cost-efficient EOL-testing software for simple applications, incl. SPL-Impedance task, QC Start and dB-Lab 212; easy upgrade option to QC STANDARD	KA3+Dongle3  PA2+Dongle3	C3	1.810 EUR	✓
4005-250	QC Basic Software, Release QC7 (noise & vibration, SAN)	cost-efficient EOL-testing software for noise & vibration applications, incl. SAN task, QC Start and dB-Lab 212; easy upgrade option to QC STANDARD	KA3+Dongle3  PA2+Dongle3	C3	1.810 EUR	✓
4005-010	QC7 Software Upgrade BASIC to STANDARD	upgrade QC BASIC (QC7) to QC STANDARD System (QC7), incl. tasks (SPL, IMP, SAN, PP, IO), QC Start and dB-Lab 212	KA3+Dongle3  PA2+Dongle3	C3	2.180 EUR	✓
4005-300	QC Remote Configuration Software, Release QC7	allows modification of limits and set up without hardware	Dongle3	S14	1.570 EUR	✓

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<b>QC Software version for use with 3<sup>rd</sup> party hardware (audio interface) (Does not work with the Klippel Analyzer or Production Analyzer.)</b>						
<b>QC Stand-alone Software*</b>		The column "Compat.HW" informs about the device type to which the module can be licensed. *Module price per 1 license, running on 1 hardware unit or 1 USB dongle.				
<b>3<sup>rd</sup> party audio interface required</b>						
4006-001	QC Stand-alone Software, Release QC7	EOL-testing with 3rd party audio interface, basis software, additional QC tasks required Klippel Dongle required	Dongle3	C3	2.200 EUR	✓
<b>Please select the appropriate QC Tasks for QC Stand-alone Software:</b>						
<b>QC Tasks for QC Stand-alone Software*</b>						
<b>QC Stand-alone Software (basis software) required</b>						
4000-263	SPL - Sound pressure based acoustic tests	QC-Task: measurement of frequency response, THD and Rub&Buzz		C3	1.690 EUR	✓
4000-267	SAN - Spectrum Analysis	QC-Task: FFT spectrum, frequency response, A-weighted SPL and distortion with/without noise generator or user-defined stimulus for noise & vibration or audio system testing		S65	1.080 EUR	✓
1001-107	SYN - External Synchronization	synchronize digital audio (e.g., Bluetooth) and trigger open-loop tests; option for QC-Task (QC-STANDARD or QC-Task required)		S32	1.690 EUR	✓
4000-262	IMP - Impedance Task	QC-Task: linear parameter measurement (TS-Parameter) <sup>1</sup>		C3	1.140 EUR	✓

<sup>1</sup>QC Stand-alone software + IMP: smart power amplifier required

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<b>Software Add-ons for QC Standard, QC Stand-alone, or QC-Tasks*</b>						
1001-107	SYN - External Synchronization	synchronize digital audio (e.g., Bluetooth) and trigger open-loop tests; option for QC-Task (QC-STANDARD or QC-Task required)	KA3  PA+Dongle2 3	S32	1.690 EUR	✓
4000-250	PNI - Production Noise Immunity	coping with noisy environment; option for SPL Task (QC-STANDARD or SPL Task required)	KA3  PA+Dongle2 3	S21	2.780 EUR	✓
4000-251	EXD Bluetooth - External Device Bluetooth (Pre-release)	stand-alone preset for EXD task: automated pairing and control of Bluetooth audio devices (pairing, profile control) QC STANDARD Software, Release QC6 or higher required	KA3 Dongle3	S31	600 EUR	✓
4000-241	EXD Pro - External Devices Professional	QC-Task: integration and control of external lab and test equipment (e.g., GPIB, Bluetooth radio) based on user-definable custom step sequence	Dongle2 3	S31	1.210 EUR	✓

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### All prices net, EXW (tax, duty, transportation, support extra)

Item No.	Product	Explanation	Compat. HW	Spec	Price per unit		QC-EOL
<b>Post-Processing Tools (Software)*</b>							
4000-225	STAT - Statistics	statistical overview of Klippel measurement data (1D and 2D data), pool-based visualization of measures allows quick assessment of variances and comparisons between test object groups	Dongle3	S48	1.510	EUR	✓
4000-220	MSP - Match-Speaker-Tool	find best matching pairs from a pool of speakers	Dongle2	S15	2.290	EUR	✓
1000-920	TFA - Time-Frequency Analysis	analysis tool for visualization and auralization of waveforms and impulse responses vs time and frequency based on wavelet, filter bank or STFT analysis dB-Lab 210 or higher required	KA3 DA2 Dongle3	S61	2.170	EUR	
1001-112	PPP - Programmable Post-Processing	user defined calculation and post-processing of measurement results in dB-Lab	KA3 DA Dongle3	S53	580	EUR	

Item No.	Product	Explanation	Compat. HW	Spec	Price per unit		QC-EOL
<b>Klippel Endurance Test (KET)*</b>		The column "Compat.HW" informs about the device type to which the module can be licensed. *Module price per 1 license, running on 1 hardware unit or 1 USB dongle					
<b>Not available for KA3, DA2, PM8; Klippel Dongle3 required</b>							
1000-720	KET Base Software incl. 1 DUT-channel	Klippel frame software (dB-Lab 212 required), KET Dashboard, 1 DUT channel license, 1 Token DVS on request	Dongle3	S16	4.000	EUR	
1000-721	KET additional DUT-channel	software license, enables the measurement of a defined number <sup>1</sup> of KET DUT channels that can be operated in parallel in addition to KET Base Software ( <sup>1</sup> Discount scale based on the number of additional KET DUT channels)	Dongle3	S16	400 <sup>2</sup>	EUR	

<sup>2</sup>Base price per additional license, quantity discount from 5 KET additional DUT-channel

#### Smart power amplifier for KET: Please see → page 11 (*Powersoft Mezzo series*)

#### Accessory for rack mounting and cabling

2300-500	Cable, Adapter; 8x speakON male – 8x COMBICON 4 pin, <b>KET Patch-Bay</b> Rev. 1.0, 1U	KET Patch-Bay is a 1U 19" rack mountable connection panel for connecting up to 16 DUTs with 8 speakON cables to 4 Mezzo amplifiers		TN16	390	EUR	
2300-032	Cable; speakON female - male, 5m, 4x4mm <sup>2</sup>	speakON female to speakON male, termination 1:1, 4x4mm <sup>2</sup> , for speaker cable extension		TN16	150	EUR	
2300-036	Speaker Cable without clips, 3m "Speaker"	speakON to 4mm lab connectors, from measurement device to DUT, 4-wires with separate FORCE & SENSE wires, 3m		TN16	110	EUR	
2300-020	Alligator Clip; large, red & black, set	large alligator measurement clip set for isolated 4mm banana plugs, 1000V, CAT II / 32A		TN16	30	EUR	

**KLIPPEL provides further accessories to complement the measurement equipment for the Klippel Endurance Test solution: Please see → page 15 for Temperature & Humidity Sensor / QR/Barcode Scanner.**

Item No.	Product	Explanation	Compat. HW	Spec	Price per unit		QC-EOL
<b>Power Test Software Modules (PWT)*</b>							
<b>Not available for KA3 or Klippel Dongle3</b>							
1000-710	PWT Lite - Power Test Lite	power testing with temperature measurement	DA2 PM8	S6	2.530	EUR	
1000-700	PWT Pro - Power Test Professional	power testing with temperature measurement and transducer identification	DA2 PM8	S6	7.260	EUR	
1000-711	PWT Pro Upgrade	upgrade from PWT Lite to PWT Pro	DA2 PM8	S6	4.730	EUR	
1000-401	LPM for PM8 - Linear Parameter Measurement for Power Monitor 8	LPM for intermittent testing (without laser measurement)	PM8	S2	550	EUR	
1001-101	PWT Intermittent Summary Tool Ver. 2	for summarizing results from PWT+LPM intermittent testing	DA2 PM8 Dongle2	AN29	1.650	EUR	



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<b>Transducer Part + Material Parameter Measurement (SPM, MPM, LST)</b>						
<b>Measurement Bench Sets</b>						
2500-101	SPM Pro Bench	for RnD: SPM Pro/Lite for QC: LST testing incl. external laser mounting not included: clamping parts, laser, microphone		C2 C6	on request	✓
2500-300	LST Bench Set - for Internal Laser	for QC: LST testing of spiders, surrounds, cones, passive radiators, incl. internal laser mounting and adjustment slider not included: clamping parts, laser, microphone		C6	1.290 EUR	✓
2500-310	LST Bench Set - for External Laser	for QC: LST testing for RnD: linear SPM & MPM measurements of spiders, surrounds, cones, passive radiators, incl. external laser mounting and adjustment bar not included: clamping parts, laser, microphone		C6	1.690 EUR	✓
2500-604	MSPM Bench Set	Small measurement bench for linear + nonlinear testing of small suspension parts (micro-speakers, headphones), Rev. 1.1 incl. Extended Clamping Ring + Adapter, 70 mm not included: laser mounting, laser, microphone		A12	2.250 EUR	✓ <sup>3</sup>
<sup>3</sup> Clamping for very small DUTs not available from Klippel.						
<b>Accessory for Measurement Bench Sets</b>						
2500-142	HW Add-On - Internal Laser Fixture Set - for LST Bench	2-dimensional internal Laser mounting and adjustment unit, incl. mounting brackets and screws, distance adjustment washer set, requires LST Bench		C6	390 EUR	✓
2500-141	HW Add-On - External Laser Fixture - for LST Bench	2-dimensional external laser mounting and adjustment boom, incl. sensor slide rail, laser sensor rod, requires LST Bench		C6	1.110 EUR	✓
2500-302	Ring Set	clamping parts for SPM Bench + LST Bench		C2	1.650 EUR	✓
2500-111	Cup & Cone Set (metal)	clamping parts for SPM Bench		C2	1.590 EUR	
2500-301	Cone Set (plastic)	clamping parts for LST Bench (SPM Bench)		C6	590 EUR	✓
2500-200	MPM Clamp for SPM Bench	MPM measurement clamping set as accessory for SPM Pro Bench		C4	890 EUR	
2500-220	MPM Clamp for LST Bench Set, incl. LST Fixing Grips	MPM measurement clamping set incl. LST Fixing Grips as accessory for LST Bench		C4	1.150 EUR	
<b>Software Module for SPM, LST, MPM Measurement*<sup>1</sup></b>						
<sup>1</sup> TRF Standard Software Module required			The column "Compat.HW" informs about the device type to which the module can be licensed. *Module price per 1 license, running on 1 hardware unit or 1 USB dongle			
2500-103	SPM Lite - Suspension Part Measurement Lite	software for linear testing of transducer suspension parts with LST Bench or SPM Pro Bench	KA3+Dongle2 DA2	C2	1.040 EUR	
2500-102	SPM Pro - Suspension Part Measurement Professional	software for linear and nonlinear testing of transducer suspension parts with SPM Pro Bench	KA3+Dongle2 DA2	C2	2.640 EUR	
4000-242	LST Lite - Linear Suspension Test Lite	QC-Task: compliance check of spiders, cones and surrounds	KA3 PA+Dongle2 3	C6	1.150 EUR	✓
4000-244	LST Pro - Linear Suspension Test Professional	QC-Task: LST Lite features + monitoring mass and stiffness deviation for passive radiators	KA3 PA+Dongle2 3	C6	2.200 EUR	✓
4000-248	LST Pro Upgrade	upgrade from LST Lite to LST Pro		C6	1.050 EUR	✓
2500-603	MSPM Lite - Micro Suspension Part Measurement Lite	software for linear testing of small suspension parts (micro-speakers, headphones) dB-Lab 210 or higher required	KA3 DA2	C10	3.080 EUR	
2500-602	MSPM Pro - Micro Suspension Part Measurement Professional	software for linear and nonlinear testing of small suspension parts (micro-speakers, headphones) dB-Lab 210 or higher required	KA3 DA2	C11	7.480 EUR	
2500-210	MPM - Material Parameter Measurement	software for parameter measurement: E modulus, loss factor	DA2 KA3+Dongle2	C4	2.090 EUR	

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Item No.	Product	Explanation	Compat. HW	Spec	Price per unit	QC-EOL
<b>R&amp;D System Software Updates (KA3 for RnD, DA2, PM8)</b>						
1000-020	Update dB-Lab 210 to 212 (per KA3/DA2)	project management software update to dB-Lab version 212 from dB-Lab 210 incl. purchased software modules for the particular KA3 or DA2			2.290 EUR	
1000-025	Update dB-Lab 210 to 212 (per PM8)	project management software update to version 212 from dB-Lab 210 incl. purchased module(s) for the particular PM8			990 EUR	
1000-021	Update dB-Lab 206 to 212 (per DA2)	project management software update to dB-Lab version 212 from dB-Lab 206 incl. purchased software modules for the particular DA2			3.500 EUR	
1000-026	Update dB-Lab 206 to 212 (per PM8)	project management software update to version 212 from dB-Lab 206 incl. purchased module(s) for the particular PM8			990 EUR	
1000-022	Update dB-Lab 202 to 212 (per DA2)	project management software update to dB-Lab version 212 from dB-Lab 202 incl. purchased software modules for the particular DA2			3.870 EUR	
1000-027	Update dB-Lab 202 to 212 (per PM8)	project management software update to version 212 from dB-Lab 202 incl. purchased module(s) for the particular PM8			1.080 EUR	
1000-023	Update dB-Lab 200 to 212 (per DA2)	project management software update to dB-Lab version 212 from dB-Lab 200 incl. purchased software modules for the particular DA2			4.230 EUR	
<b>QC System Software Updates (KA3 for QC, Dongle)</b>						
4005-101	QC Update STANDARD System (V6 to V7)	update from version QC6 to QC7 (dB-Lab 212) incl. tasks (SPL, IMP, SAN, PP, IO), QC Start, and purchased further tasks if applicable	Dongle3		1.690 EUR	✓
4005-102	QC Update STANDARD System (V5 to V7)	update from version QC5 to QC7 (dB-Lab 212) incl. tasks (SPL, IMP, SAN, PP, IO), QC Start, and purchased further tasks if applicable New Klippel Dongle required.	Dongle3		2.290 EUR	✓
4005-103	QC Update STANDARD System (V4 to V7)	update from version QC4 to QC7 (dB-Lab 212) incl. tasks (SPL, IMP, SAN, PP, IO), QC Start, and purchased further tasks if applicable New Klippel Dongle required.	Dongle3		2.780 EUR	✓
4005-104	QC Update STANDARD System (V3 to V7)	update from version QC3 to QC7 (dB-Lab 212) incl. tasks (SPL, IMP, SAN, PP, IO), QC Start, and purchased further tasks if applicable New Klippel Dongle required.	Dongle3		3.260 EUR	✓
4005-106	QC Update STANDARD System (V2 to V7)	update from version QC2 to QC7 (dB-Lab 212) incl. tasks (SPL, IMP, SAN, PP, IO), QC Start, and purchased further tasks if applicable New Klippel Dongle required.	Dongle3		3.630 EUR	✓
4005-201	QC Update BASIC System (V6 to V7)	update from version QC6 to QC7 incl. SPL-Impedance task, QC Start and dB-Lab 212	Dongle3		960 EUR	✓
4005-202	QC Update BASIC System (V5 to V7)	update from version QC5 to QC7 incl. SPL-Impedance task, QC Start and dB-Lab 212 New Klippel Dongle required.	Dongle3		1.330 EUR	✓
4005-203	QC Update BASIC System (V4 to V7)	update from version QC4 to QC7 incl. SPL-Impedance task, QC Start and dB-Lab 212 New Klippel Dongle required.	Dongle3		1.570 EUR	✓
4005-204	QC Update BASIC System (V3 to V7)	update from version QC3 to QC7 incl. SPL-Impedance task, QC Start and dB-Lab 212 New Klippel Dongle required.	Dongle3		1.690 EUR	✓
4005-205	QC Update BASIC System (V2 to V7)	update from version QC2 to QC7 incl. SPL-Impedance task, QC Start and dB-Lab 212 New Klippel Dongle required.	Dongle3		1.930 EUR	✓
<b>Support Contracts</b>						
6001-102	KLIPPEL R&D Support Contract	1 year term, incl. software updates + email support by KLIPPEL staff (per unit)			2.660 EUR	
6001-200	KLIPPEL QC Support Contract	1 year term, incl. software updates + email support by KLIPPEL staff (per unit)			2.290 EUR	✓

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<b>Service Measurement Hardware (KA3, DA2, PA2, PM8)</b>						
6000-702	Manufacturer Calibration KA3 with 1 Card	KA3 calibration with formal certificate, recommended every 2 years			450 EUR	✓
6000-703	Manufacturer Calibration KA3 with 2 - 6 Cards	KA3 calibration with formal certificate, recommended every 2 years			560 EUR	✓
6000-001	Manufacturer Calibration DA, PA, PM8	DA, PM8 or PA calibration with formal certificate, recommended every 2 years			580 EUR	✓
6000-120	Modification Speaker Card - High Power Version	modification KA3 Speaker Card to High Power Version		H8	600 EUR	
6000-130	Modification QC Card for use with external amplifier	modification KA3 QC Card for use with external amplifier		H11	180 EUR	✓
6000-301	Production Analyzer Modification - High Sensitivity + Calibration	both speaker channels = High Sensitivity and Manufacturer Calibration		H4	710 EUR	✓
6000-302	Production Analyzer Modification - Very High Sensitivity & Calibration	both speaker channels = Very High Sensitivity and Manufacturer Calibration		H4	710 EUR	✓
6000-309	Production Analyzer Modification 0dB Mic Input Gain	both mic input channels adjusted to 0dB gain		H4	160 EUR	✓

Item No.	Product	Explanation	Compat. HW	Spec	Price per unit	QC-EOL
<b>Accessories**</b>						
<small>**Prices for accessories from other suppliers (microphones, lasers, amplifiers, simulators) are valid only in combination with KLIPPEL Analyzer System.            Also available on request:            - Various types of microphones from Microtech Gefell and G.R.A.S.            - Several cables</small>						
<b>Speaker Stands</b>						
2211-100	Pro Driver Stand	transducer fixture with laser and microphone positioning (incl. laser calibration spacer), Rev. 1.6		A5	3.890 EUR	
2211-003	Microspeaker Clamping	micro-speaker fixture with laser fixture and microphone positioning		A10	1.550 EUR	
2211-004	Vacuum Stand	micro-speaker fixture, used in vacuum chamber or on SCN turn table		A10	1.270 EUR	
<b>Power Amplifier</b>						
2700-050	Power Amplifier; Dynacord SL900	2x 650/450/270W @ 2/4/8ohm, 1x 1300/900W @ 4/8ohm, incl. speakON female - female, 1.5m, 4x2,5mm <sup>2</sup> "Amplifier" cable			1.060 EUR	✓
2700-051	Power Amplifier; Dynacord SL1200	2x 900/600/380W @ 2/4/8ohm, 1x 1800/1200W @ 4/8ohm, incl. speakON female - female, 1.5m, 4x2,5mm <sup>2</sup> "Amplifier" cable			1.180 EUR	✓
2700-052	Power Amplifier; Dynacord SL1800	2x 1250/900/550W @ 2/4/8ohm, 1x 2800/1800W @ 4/8ohm, incl. speakON female - female, 1.5m, 4x2,5mm <sup>2</sup> "Amplifier" cable			1.360 EUR	✓
2700-053	Power Amplifier; Dynacord SL2400	2x 1800/1200/750W @ 2/4/8ohm, 1x 3600/2400W @ 4/8ohm, incl. speakON female - female, 1.5m, 4x2,5mm <sup>2</sup> "Amplifier" cable			1.610 EUR	✓
2700-040	Power Amplifier; Powersoft MEZZO 324AD	4x 80/80W @ 4/8ohm, 1x 80/80/80W @ 2/4/8ohm, DANTE network interface, internal U/I sensing			1.410 EUR	✓
2700-041	Power Amplifier; Powersoft MEZZO 604AD	4x 100/150W @ 4/8ohm, 1x 150/150/150W @ 2/4/8ohm, DANTE network interface, internal U/I sensing			1.730 EUR	✓

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<b>Laser</b>						
2103-100	Laser Set LK-H022 (all-purpose)	20mm +/-3mm, for tweeter, headphones, micro-speaker (incl. Controller LK-G5001P rev.2.0, 5m cable CB-A5)	KA3	A2	8.250 EUR	
2103-110	Laser Set LK-H022 (for SCN only)	20mm +/-3mm, dedicated to SCN hardware rev.>=2.0 (incl. Controller LK-G5001P rev.2.0)	KA3 + SCN	A2	7.720 EUR	
2103-120	Laser Sensor Head LK-H022 (all purpose)	20mm +/-3mm measurement range, for Laser Controller rev. 2.0, incl. 5m Sensor-to-Controller cable, 3m Controller-to-KA3 cable, universal mounting parts	KA3	A2	5.070 EUR	
2103-200	Laser Set LK-H052 (all-purpose)	50mm +/-10mm, for woofer, tweeter, micro-speaker (incl. Controller LK-G5001P rev.2.0, 5m cable CB-A5)	KA3	A2	8.250 EUR	✓
2103-210	Laser Set LK-H052 (for SCN only)	50mm +/-10mm, dedicated to SCN hardware rev.>=2.0 (incl. Controller LK-G5001P rev.2.0)	KA3 + SCN	A2	7.720 EUR	
2103-250	Laser Set LK-H052 (for Production Analyzer), Rev. 2.0	50mm +/-10mm, for LST (incl. Controller LK-G5001P rev.2.0, 2m cable CB-A2, LEMO-XLR adapter for PA connection)	PA	A2	8.110 EUR	✓
2103-220	Laser Sensor Head LK-H052 (all purpose)	50mm +/-10mm measurement range, for Laser Controller rev. 2.0, incl. 5m Sensor-to-Controller cable, 3m Controller-to-KA3 cable, universal mounting parts	KA3	A2	5.070 EUR	
2103-300	Laser Set LK-H082 (all-purpose)	80mm +/-18 mm, for woofer, tweeter, compression driver (incl. Controller LK-G5001P rev.2.0, 5m cable CB-A5)	KA3	A2	8.250 EUR	
2103-320	Laser Sensor Head LK-H082 (all purpose)	80mm +/-18mm measurement range, for Laser Controller rev. 2.0, incl. 5m Sensor-to-Controller cable, 3m Controller-to-KA3 cable, universal mounting parts	KA3	A2	5.070 EUR	
2103-421	Laser Set LK-H152 (all-purpose)	150mm +/-40mm, for long throw woofer, SPM usage (incl. Controller LK-G5001P rev. 2.0, 5m cable CB-A5)	KA3	A2	8.250 EUR	
2103-420	Laser Sensor Head LK-H152 (all purpose)	150mm +/-40mm measurement range, for Laser Controller rev. 2.0, incl. 5m Sensor-to-Controller cable, 3m Controller-to-KA3 cable, universal mounting parts	KA3	A2	5.070 EUR	
2103-500	Laser Controller LK-G5001P Rev. 2.0 Set	For KA3 use, with mounted connector panel, incl. laser supply & signal cable (M8-LEMO), programming cable (RJ12-DB9 cable + Serial to USB converter)	KA3	A2	3.620 EUR	
2130-002	Power Supply Set for DA and Laser Controller LK-G5001P Rev.>=2.0	24 Vdc PSU and M8-M12 Laser supply cable for Laser Controllers rev.>=2.0 operated with DA, required for use of all-purpose laser sets with DA2	DA		260 EUR	
2300-001	Translation stage (incl. Micrometer)	incl. Micrometer, Laser Bracket Rev.108, required for laser positioning and calibration of LK-H and LK-G series		A2	820 EUR	
2102-041	Laser Set IL-030 for MPM/SPM-Lite for KA3/DA	32.5mm +/-12.5mm, for MPM + SPM-Lite only (incl. Controller IL-1000) for KA3/DA2 usage	KA3/DA	C6	1.720 EUR	
2102-044	Laser Set IL-065 for LST with KA3	80mm +/-20mm, for LST only (incl. Controller IL-1000)	KA3	C6	1.560 EUR	✓
2102-042	Laser Set IL-065 for LST with PA	80mm +/-20mm, for LST only (incl. Controller IL-1000, PSU, LEMO-XLR adapter for PA connection)	PA	C6	1.690 EUR	✓
2103-071	Laser Set HL-G108-S-J, for KA3	85mm +/-20mm, for large signal only, not for LPM and SPM, with build in Controller, incl. 4m Sensor to KA3 cable	KA3	A2	on request EUR	
2103-060	Laser Set HL-G112-S-J, for KA3	120mm +/-60mm, for large signal only, not for LPM and SPM, with build in Controller, incl. 4m Sensor to KA3 cable	KA3	A2	on request EUR	

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<b>Measurement Microphone Sets</b>							
<b>High Sensitivity – Free Field – Measurement Microphones: 50 mV/Pa / 20 kHz / 1/2" class</b>							
2400-012	Mic 255 IEPE 1/2" Set	low noise - high sensitivity standard mic, 50 mV/Pa, max. 135 dB, prepolarized cartridge, IEPE powered pre-amp; incl. mic, case, sensitivity chart, mic clip, 5 m BNC cable		A4	1.100	EUR	✓
2400-615	Mic 212 IEPE 1/2" Set	low noise - high sensitivity rugged mic, 50mV/Pa, max. 135dB, prepolarized cartridge, IEPE powered pre-amp; incl. mic, case, sensitivity chart, mic clip, 5 m BNC cable		A4	1.400	EUR	✓
2400-015	Mic 255 48V 1/2" Set	low noise - high sensitivity - free field mic, 50mV/Pa, max. 135dB, prepolarized cartridge, Phantom powered pre-amp; incl. mic, case, sensitivity chart, mic clip, fixed 2 m XLR cable		A4	1.330	EUR	
2400-602	Mic 221 48V 1/2" Set	low noise - high sensitivity - free field mic, 50mV/Pa, max. 135dB, 200V polarized cartridge, Phantom powered pre-amp; incl. mic, case, sensitivity chart, mic clip, 5 m XLR cable		A4	1.510	EUR	✓
2400-501	Mic 46AE IEPE 1/2" Set	low noise - high sensitivity - free field mic, 50mV/Pa, max. 135dB, prepolarized cartridge, IEPE powered pre-amp; incl. mic, case, sensitivity chart, mic clip, 5 m BNC cable		A4	2.100	EUR	✓
2400-502	Mic 146AE IEPE 1/2" Set	low noise - high sensitivity - rugged free field mic, 50mV/Pa, max. 133dB, prepolarized cartridge, IEPE powered pre-amp; incl. mic, 2 rugged grids, 1 standard grid, calibration adapter for rugged grid, case, sensitivity chart, mic clip, 5 m BNC cable		A4	2.330	EUR	✓
<b>Higher SPL - Wider Bandwidth - Free Field - Measurement Microphones: 10 mV/Pa / 40 kHz / 1/2" class</b>							
2400-614	Mic 202E IEPE 1/2" Set	higher SPL - wider bandwidth - free field mic, 14mV/Pa, max. 145dB, prepolarized cartridge, IEPE powered pre-amp; incl. mic, case, sensitivity chart, mic clip, 5 m BNC cable		A4	1.390	EUR	✓
2400-613	Mic 202 48V 1/2" Set	higher SPL - wider bandwidth - free field mic, 14mV/Pa, max. 145dB, 200V polarized cartridge, Phantom powered pre-amp; incl. mic, case, sensitivity chart, mic clip, 5 m XLR cable		A4	1.700	EUR	✓
2400-503	Mic 46AM IEPE 1/2" Set	higher SPL - wider bandwidth - free field mic, 14.5mV/Pa, max. 145dB, prepolarized cartridge, IEPE powered pre-amp; incl. mic, case, sensitivity chart, mic clip, 5 m BNC cable		A4	2.320	EUR	✓
<b>Max. SPL - Widest Bandwidth - Free Field - Measurement Microphones: 5 mV/Pa / 100 kHz / 1/4" class</b>							
2400-617	Mic 301E IEPE 1/4" Set (2 m Microdot – BNC cable, for NFS Rev.≤1.0.8)	max. SPL - max. bandwidth - free field mic, 3.2mV/Pa, max. 155dB, prepolarized cartridge, IEPE powered pre-amp; incl. mic, case, sensitivity chart, mic clip, 2 m Microdot to BNC cable		A4	1.560	EUR	✓
2400-612	Mic 301E IEPE 1/4" Set	max. SPL - max. bandwidth - free field mic, 3.2mV/Pa, max. 155dB, prepolarized cartridge, IEPE powered pre-amp; incl. mic, case, sensitivity chart, mic clip, 5 m Microdot to BNC cable		A4	1.590	EUR	✓
2400-616	Mic 301E 48V 1/4" Set (2 m XLR cable, for NFS Rev.≥1.0.9)	max. SPL - max. bandwidth - free field mic, 3.2mV/Pa, max. 155dB, prepolarized cartridge, Phantom powered pre-amp; incl. mic, case, sensitivity chart, mic clip, 2 m XLR cable		A4	1.790	EUR	✓
2400-607	Mic 301 48V 1/4" Set	max. SPL - max. bandwidth - free field mic, 3.2mV/Pa, max. 155dB, 200V polarized cartridge, Phantom powered pre-amp; incl. mic, case, sensitivity chart, mic clip, 5 m XLR cable		A4	1.930	EUR	✓
2400-507	Mic 46BE IEPE 1/4" Set	max. SPL - max. bandwidth - free field mic, 3.6mV/Pa, max. 155dB, prepolarized cartridge, IEPE powered pre-amp; incl. mic, case, sensitivity chart, mic clip, 5 m Microdot to BNC cable		A4	2.580	EUR	✓

## KLIPPEL Analyzer System Price List

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### All prices net, EXW (tax, duty, transportation, support extra)

Item No.	Product	Explanation	Compat. HW	Spec	Price per unit		QC-EOL
<b>Measurement Microphone Sets</b>							
<b>Special Application Microphones</b>							
2400-350	Mic 40PP-10 IEPE 1/4" Set	QC test & ambient noise mic, RnD SCN NF Add-On mic, 50mV/Pa, max. 128dB, prepolarized cartridge, IEPE powered pre-amp; incl. mic, case, sensitivity chart, mic clip, 5 m BNC cable		A4	980	EUR	✓
2400-360	Mic 40PP-10-S1 IEPE 1/4" Set	QC testing - higher SPL mic, QC LST mic, RnD MPM, MSPM, SPM-Lite mic, 10mV/Pa, max. 142dB, prepolarized cartridge, IEPE powered pre-amp; incl. mic, case, sensitivity chart, mic clip, 5 m BNC cable		A4	1.010	EUR	✓
2400-508	Mic 47AX IEPE 1/2" Set, for NFS Wireless Synchronization	flush mount pressure mic, 12.5mV/Pa, max. 145dB, prepolarized cartridge, IEPE powered pre-amp with fixed mounted 1.5m Microdot cable; incl. mic, case, sensitivity chart, Microdot-BNC adapter, 2x BNC-BNC coupler, 10 m BNC cable, 2 m BNC cable		A4	2.880	EUR	
2400-700	Mic M23 48V 1/4" Set	Phantom powered measurement mic, 34mV/Pa, max. 135dB, prepolarized cartridge; incl. mic, 5/8" clip, 3/8" & 1/4" adapter, case, sensitivity chart, 5 m XLR cable, 1/2" calibration adapter		A4	1.040	EUR	✓
<b>Microphone IEPE Power Supply</b>							
2400-052	Mic Supply Unit; IEPE type, GRAS 12AL set	1-channel, BNC I/Os, battery or 4-6 Vdc powered, switchable A-weighting filter, incl. 1 m BNC cable, BNC-XLR adapter, PSU		A4	1.130	EUR	
2400-301	Mic Supply Unit; IEPE type, IV11-S set	1-channel, BNC I/Os, 5 Vdc powered, switchable gain = 0 dB/10 dB, incl. 1 m BNC cable, BNC-XLR adapter, PSU		A4	800	EUR	✓
2400-097	Mic Supply Unit; IEPE & TEDS type, GRAS 12BA set	1-channel, BNC I/Os, USB powered, fixed gain = 0 dB, TEDS interface, incl. 1 m BNC cable, BNC-XLR adapter, USB-C - USB-A cable		A4	1.440	EUR	
<b>Microphone Calibrator</b>							
2400-023	Mic Calibrator; GRAS 42AG Multifunction Sound Calibrator, Class 1, Set	Sound pressure calibrator for 1", 1/2", 1/4" mics, 94 or 114 dB at 250 Hz or 1 kHz, AAA battery supply, case, calibration certificate; Additional adapter 2400-024 required for Mic Sets MI17/MI17HL and MI18/MI18HL!		A4	1.980	EUR	✓
2400-024	Mic Calibrator Adapter 1/4" for GRAS 42AG	Supplement item for GRAS 42AG Multifunction Sound Calibrator, Class 1 Adapter for MI17/MIHL and MI18/MI8HL		A4	170	EUR	✓
<b>Vacuum Measurement Sets</b>							
2600-010	Vacuum Measurement Kit, incl. default vacuum pump	recommended for testing micro-speakers and compression drivers; incl. vacuum chamber with glass plate, vacuum pump (delivery 16l/min at atm pressure, 15mbar abs.), vacuum tube, air filter, inner and outer cables		A7	3.290	EUR	
2600-015	Vacuum Measurement Kit, incl. extended vacuum pump	recommended for testing micro-speakers and compression drivers; incl. vacuum chamber with glass plate, vacuum pump (delivery 32l/min at atm pressure, 12mbar abs.), vacuum tube, air filter, inner and outer cables		A7	3.520	EUR	
<b>Multiplexer</b>							
2800-101	Multiplexer BNC	MUX81-42 BNC (Mic version)		A8	1.910	EUR	✓
2800-102	Multiplexer XLR-IN	MUX81-42-XLR-IN (LINE-IN version, 8 x 1 or 4 x 2)		A8	1.950	EUR	✓
2800-103	Multiplexer XLR-OUT	MUX81-42-XLR-OUT (LINE-OUT version, 1 x 8 or 2 x 4)		A8	1.950	EUR	✓
2800-104	Multiplexer SPEAKON	MUX81-42-SPEAKON (Speaker version)		A8	1.990	EUR	✓

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Item No.	Product	Explanation	Compat. HW	Spec	Price per unit	QC-EOL
<b>Miscellaneous</b>						
2800-005	Manual Sweep Controller	intuitive control of frequency and level for the manual sweep		A6	290 EUR	✓
2800-004	Bar Code Scanner	quick data entry via Barcode/QR-Code		A6	210 EUR	✓
2800-011	Temperature + Humidity Sensor (dB-Lab 210.xxx or QC6 required)	automatic recording of temperature + humidity	KA31 PA+ Dongle3	A6	360 EUR	✓
2800-407	MegaSig U980 Bluetooth® Converter Set	Professional, analog Bluetooth converter with USB control incl. cable set and software interface to Klippel R&D and QC Software		A6	1.910 EUR	✓
2800-405	Interface; USB - Bluetooth® Radio, Laird BT820	Bluetooth radio USB dongle recommended for QC software framework applications – supports automated pairing and profile control via Windows Bluetooth radio		A6	on request	
2800-400	Converter; USB - GPIB, Prologix	GPIB-Controller for USB, required for External Devices Module		S31	on request	

Item No.	Product	Explanation	Compat. HW	Spec	Price per unit	QC-EOL
<b>Sound Sources</b>						
2800-500	Genelec 8010A (Compact, Active Two-way Speaker)	Compact, analog sound source with balanced XLR input (96 dB, 74 Hz – 20 kHz) for EoL testing of microphones, headsets, voice-controlled devices...		A15	on request	
2800-501	Genelec 8330A SAM (Active Two-way Speaker)	DSP controlled sound source with balanced XLR input (104 dB, 58 Hz – 20 kHz) for testing microphones, headsets, voice-controlled devices...		A15	on request	
2800-502	Genelec 8331A SAM (Active Three-way Speaker)	DSP controlled coaxial point source with balanced XLR input (104 dB, 58 Hz – 20 kHz); reference sound source for testing microphones, headsets, voice-controlled devices...		A15	on request	
2800-510	GLM™ Genelec Loudspeaker Manager User Kit	Accessory for Genelec SAM speakers: GLM network adaptor and microphone for frequency response calibration and control		A15	on request	
2800-511	VESA Adapter for Genelec Speakers	Accessory for Genelec speakers: VESA mounting adapter plate (75/100 mm)		A15	on request	

The stated price information for accessories from other manufacturers (microphone sets, laser sets, power amplifiers, other peripherals) is only valid in combination with the Klippel Analyzer measuring system.

Upon request are offered:

- various measuring microphones of the manufacturers Microtech Gefell and G.R.A.S.
- speaker cable, extension cable, amplifier cable, supply and signal cable, clips