

KLIPPEL Analyzer System Price List

Klippel GmbH, Germany
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Item No.	Product	Explanation	Compat. HW	Spec	Price per unit	QC-EOL
Measurement Hardware						
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	7.680 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	8.760 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	7.640 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	6.400 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	6.280 EUR	✓
2000-331	KA3 - Klippel Analyzer 3 (LS) special configuration, Set	incl. Laser Card, Speaker Card, power supply, cable set, project management software (dB-Lab 212)		H3	6.560 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	5.140 EUR	✓
2000-333	KA3 - Klippel Analyzer 3 (LQ) EoL configuration, Set	incl. Laser Card, QC Card (Q: QC-Card with internal amplifier enabled), power supply, cable set, project management software (dB-Lab 212), recommended for dedicated LST application		H3 H11	6.700 EUR	✓
2000-336	KA3 - Klippel Analyzer 3 (LQe) EoL configuration, Set	incl. Laser Card, QC Card (Qe: QC-Card with external amplifier input enabled), power supply, cable set, project management software (dB-Lab 212), recommended for dedicated LST application		H3 H11	6.700 EUR	✓
2000-326	KA3 - Klippel Analyzer 3 (Q) EoL configuration, Set	incl. QC-Card (Q: QC-Card with internal amplifier enabled), 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 (Qe: QC-Card with external amplifier input enabled), 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 (Q: QC-Card with internal amplifier enabled), XLR-Card, power supply, cable set, project management software (dB-Lab 212), recommended for EOL applications using Phantom Powered mics		H3 H11	6.540 EUR	✓
2000-337	KA3 - Klippel Analyzer 3 (QeX) special configuration, Set	incl. QC-Card (Qe: QC-Card with external amplifier input enabled), XLR-Card, power supply, cable set, project management software (dB-Lab 212), recommended for EOL applications using Phantom Powered mics		H3 H11	6.540 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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Multi-Scanning Workbench (Hardware Components) robot for the following measurements: SCN, NFS half-space 2pi driver and small loudspeaker system, BFS						
2530-001	Multi-Scanning Workbench, Set	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	26.100 EUR	
Software Packages for Multi-Scanning Workbench¹ ¹ 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	1.280 EUR	
2530-004	Multi-Scanning Workbench Software Set for Acoustical Analysis (2pi)	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	39.630 EUR	
2530-006	Multi-Scanning Workbench Software Set for Mechanical Analysis	SCN Analysis Software + SCN Measurement Software + SCN Import/Export Interface + SCN Radiation Area SD + SCN Sound Power / Directivity (SCN SW: 2 licenses for DA + USB Dongle or KA3 + 2x USB Dongle)	DA2+Dongle2 KA3 + 2xDongle2	C5	18.330 EUR	
Optional Software Modules for SCN Multi-Scanning Workbench						
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 Software	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	3.800 EUR	
2520-032	NFS Export Software Set (from dB-Lab 212)	Far Field Export Amplitude/Phase Data (EASE) / Holography Parameter Export	KA3 DA2 + Dongle3	C8	9.290 EUR	
Vibrometry Postprocessing Software Modules*						
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 (≥ dB-Lab 212 required)	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	5.300 EUR	
2510-043	Poly2SCN (dB-Lab 212 required)	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	2.030 EUR	
SCN NF Add-On - Upgrade for SCN Vibrometer Set* *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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SCN Software Update and SCN Analysis Software without SCN Hardware		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	2.570 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, without SCN Hardware (no SCN robotics incl., not for SCN measurements, SCN data analysis only - post-processing of SCN measuring results)	Dongle2	C5	17.740 EUR	
Extension for Multi-Scanning Workbench – B-Field Measurement (BFS) (Cylindrical magnetic motor systems)² ² rectangular or elliptic shape loudspeaker magnets: no automatic measurement, BFS Sensor: hand-held probe or measurement at fixed angles						
BFS - Hardware Components						
2510-211	BFS-Sensor	sensor for B-field measurement, accessory for Klippel Analyzer KA3 + SCN or stand-alone with KA3 File with the calibration data of the BFS sensor is provided.		A11	750 EUR	
BFS - Software Module*		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 (KA3, SCN Vibrometer Set, and dB-Lab 212 required)	KA3 DA2	S47	4.210 EUR	

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NFS Holographic Near Field Measurement - Hardware Components for small and large loudspeaker systems and driver in full-space (4pi)						
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	
NFS Holographic Near Field Measurement (Software Components)¹ <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>						
¹ TRF Standard Software Module required						
1000-900	TRF Standard - Transfer Function Measurement Standard	measurement of transfer function and harmonic distortion	KA3 DA2	S7	1.280 EUR	
2520-031	NFS Basic Software Set (from dB-Lab 212)	software module set: NFS Robotics SW, NFS Visualization SW + NFS Comparison SW, NFS Field Identification SW	KA3+Dongle3 DA2+Dongle3	C8	10.600 EUR	
2520-012	NFS Direct Sound Separation Software (formerly NFS Field Separation Software)	separation of the radiated sound from the reflections and room resonances, required to measure under non-anechoic conditions	KA3 DA2 + Dongle3	C8	23.310 EUR	
2520-018	NFS Baffle Measurement Software	Control software to measure 3D directivity of transducers mounted in a baffle (half space 2pi) with the Near Field Scanner (requires Baffle Hardware - self-made by user, not available from Klippel)	KA3 DA2	C8	6.670 EUR	
2520-013	NFS Near Field Analysis Software	NFS Carousel: Visualization of the sound pressure field in the nearfield ($\leq r$ meas.) SCN-NF: enables detailed evaluation directly in the near field	KA3 DA2 + Dongle3	C8	6.530 EUR	
2520-032	NFS Export Software Set (from dB-Lab 212)	Far Field Export Amplitude/Phase Data (EASE) / Holography Parameter Export	KA3 DA2 + Dongle3	C8	9.290 EUR	
2520-017	NFS Multi-Source Superposition Software	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	3.800 EUR	
Please select a suitable Measurement Microphone for the NFS Holographic Near Field Measurements (1/4" Mic Set) → Recommended for NFS HW Rev.1.09: Mic 301E 48V 1/4" Set (2400-616) Recommended for NFS HW Rev.1.08 and below: Mic 301E IEPE 1/4" Set (2400-617)						
Additional components for measuring multiple DUTs at once: Multiplexer → See page 16						
Additional components for measuring Bluetooth DUTs: Bluetooth Converter → See page 16						

Item No.	Product	Explanation	Compat. HW	Spec	Price per unit	QC-EOL
Polar Far-Field Measurement (POL)						
Software Module for Polar Far-Field Measurement*¹ <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>						
¹ TRF Standard Software Module required						
1001-103	POL - Polar Far Field Measurement	anechoic directivity measurement and visualisation (CEA 2034) (TRF Standard, dB-Lab 210 or higher, and turntable required)	KA3 DA2	S41	2.890 EUR	
Hardware Component for Polar Far-Field Measurement						
2560-002	Turntable Outline ET250R2-3D Set	precision turntable for polar measurement, high load - lower speed type , incl. power cord, 3 m RJ45 Cat6 cable	KA3, DA2		6.850 EUR	
2560-003	Turntable Outline ET50-3D Set	precision turntable for polar measurement, high speed - lower load type , incl. power cord, 3 m RJ45 Cat6 cable	KA3, DA2		5.830 EUR	

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Item No.	Product	Explanation	Compat. HW	Spec	Price per unit	QC-EOL
Software Modules for Klippel Analyzer Systems		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.				
Transducer Parameter Identification Modules*						
1000-100	FLSI Pro - Fast Large Signal Identification Professional (Pre-release)	fast identification of linear and nonlinear parameters - annual license - KA3 Klippel Analyzer 3 (LSX) default configuration + external power amplifier, or KA3 - Klippel Analyzer 3 (ALSX), default with internal amp, dB-Lab 212.806 or higher required, and internet connection to Klippel server required	KA3	S75	15.000 EUR	
1000-400	LPM - Linear Parameter Measurement	identification of linear electrical and mechanical parameters	KA3 DA2	S2	1.280 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	3.800 EUR	
4000-262	IMP - Impedance Task	QC-Task: linear parameter measurement (TS-Parameter)	KA3 PA+Dongle3	C3	1.280 EUR	✓
4000-265	TSX - QC Laser Fitting	Add-on for IMP Task: Thiele Small parameter identification with laser	KA3	C3	1.160 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	7.620 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	7.620 EUR	
4000-230	MSC - Motor + Suspension Check	QC-Task: fast measurement of voice coil offset and suspension asymmetry	KA3 PA+Dongle2 3	S13	6.730 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	7.080 EUR	✓
Frequency Response + Distortion Modules*						
1000-900	TRF Standard - Transfer Function Measurement Standard	measurement of transfer function and harmonic distortion	KA3 DA2	S7	1.280 EUR	
1000-912	TRF Pro & TRF Step - Transfer Function Measurement Pro. & Voltage Stepping Set (from dB-Lab 212)	measurement of transfer function, harmonic distortion and rub & buzz incl. TRF Voltage Stepping (STEP) (Pre-release) dB-Lab 212 required	KA3 DA2	S8	3.090 EUR	
1000-913	Upgrade TRF Standard to TRF Pro & TRF Step Set (from dB-Lab 212)	upgrade from TRF Standard to TRF Pro incl. TRF Voltage Stepping (STEP) (Pre-release) dB-Lab 212 required	KA3 DA2	S8	1.810 EUR	
1000-800	DIS Standard - 3D Distortion Measurement Standard	measurement of intermodulation distortion, harmonic distortion, DC displacement and compression	KA3 DA2	S4	4.480 EUR	
1000-810	DIS Pro - 3D Distortion Measurement Professional	DIS features + measurement of HI2 and amplitude intermodulation distortion	KA3 DA2	S4	5.860 EUR	
1000-811	Upgrade DIS Standard to DIS Pro	upgrade from DIS Standard to DIS Pro	KA3 DA2	S4	1.380 EUR	
1001-109	TBM - Tone Burst Measurement	peak SPL measurements using tone burst signals (CEA2010)	KA3 DA2	S44	2.570 EUR	
1001-115	MTON - Multi-Tone Measurement (dB-Lab 212 required)	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	3.720 EUR	
4000-003	MTD Multi-tone Distortion Task	QC-Task: multitone-fundamental and distortion	KA3 PA+Dongle3	S68	2.030 EUR	✓
4000-240	ALD - Air Leak Detection	QC-Task: detect air leaks in transducers and audio systems	KA3 PA+Dongle2 3	S18	4.360 EUR	✓
4000-243	ALS - Air Leak Stethoscope	QC-Task: localization of air leaks in loudspeaker systems	KA3 PA+Dongle2 3	S30	3.800 EUR	✓
4000-263	SPL - Sound Pressure Task	QC-Task: measurement of frequency response, THD and Rub & Buzz	KA3 PA+Dongle3	C3	1.890 EUR	✓
4000-200	MHT - Meta Hearing Technology	Add-on for SPL Task: defect detection beyond human hearing	KA3 PA+Dongle2 3	S20	1.850 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	1.150 EUR	✓

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Software Modules for Klippel Analyzer Systems		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.				
Frequency Response + Distortion Modules*						
4000-245	EQA - Equalization & Alignment	QC-Task: automatic or assisted adjustment of user-defined level or frequency response	KA3 PA+Dongle2 3	S33	910 EUR	✓
4000-270	DCX - Dynamic Excursion Check and Control (Formerly Dynamic DC Check)	Add-on for SPL and EQA Task: measurement of AC/DC displacement with laser PA: (DC input modification of Production Analyzer Hardware required)	KA3 PA+Dongle3	S37	4.350 EUR	✓
4000-266	3DL - Spectrogram 3D Limits (\geq dB-Lab 212 required / QC7)	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	1.360 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	1.200 EUR	✓
2520-030	ISC - In Situ Room Compensation	correction filter for compensation of room influence	KA3 DA2	S62	1.620 EUR	

Item No.	Product	Explanation	Compat. HW	Spec	Price per unit	QC-EOL
Simulation, Auralization Modules*						
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	3.460 EUR	
1000-310	SIM - Simulation	linear, nonlinear and thermal simulation	KA3 DA2 Dongle2 3	S3	4.850 EUR	
1000-601	SIM-AUR - Simulation Auralization	simulation and auralization of large signal speaker performance (music)	KA3 DA2 Dongle3	S24	5.860 EUR	

Item No.	Product	Explanation	Compat. HW	Spec	Price per unit	QC-EOL
Post-Processing Tools (Software)*						
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	1.700 EUR	✓
4000-220	MSP - Match-Speaker-Tool	find best matching pairs from a pool of speakers	Dongle2	S15	2.570 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	2.430 EUR	
1001-112	PPP - Programmable Post-Processing	user defined calculation and post-processing of measurement results in dB-Lab	KA3 DA Dongle3	S53	640 EUR	

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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))						
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	4.480 EUR	✓
4005-200	QC Basic Software Set for Electro-Acoustics, Rel. QC7	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	2.030 EUR	✓
4005-250	QC Basic Software Set for Noise & Vibration, Rel. QC7	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	2.030 EUR	✓
4005-010	Upgrade QC Basic Software Set to QC Standard Software Set, Rel. QC7	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	2.450 EUR	✓
4005-300	QC Remote Configuration Software, Release QC7	allows modification of limits and set up without hardware	Dongle3	S14	1.760 EUR	✓

Item No.	Product	Explanation	Compat. HW	Spec	Price per unit	QC-EOL
QC Software version for use with 3rd party hardware (audio interface) (Does not work with the Klippel Analyzer or Production Analyzer.)						
QC Stand-alone Software*		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.				
3rd party audio interface required						
4006-001	QC Stand-Alone Software Set, Rel. QC7	EOL-testing with 3 rd party audio interface, basis software, additional QC tasks required Klippel Dongle required	Dongle3	C3	2.480 EUR	✓

Please select the appropriate QC Tasks for QC Stand-alone Software:

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QC Tasks for QC Stand-alone Software*						
QC Stand-alone Software (basis software) required						
4000-263	SPL - Sound Pressure Task	QC-Task: measurement of frequency response, THD and Rub & Buzz		C3	1.890 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	1.200 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	1.890 EUR	✓
4000-262	IMP - Impedance Task	QC-Task: linear parameter measurement (TS-Parameter) ¹		C3	1.280 EUR	✓

¹QC Stand-alone software + IMP: smart power amplifier required

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Software Add-ons for QC Standard, QC Stand-alone, or QC-Tasks*						
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	1.890 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	3.120 EUR	✓
4000-251	EXD Bluetooth - External Devices Bluetooth	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	670 EUR	✓
4000-241	EXD Pro & EXD Bluetooth Set - External Devices Professional & Bluetooth Set	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	1.360 EUR	✓

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Klippel Endurance Test (KET)*		The column "Compat.HW" informs about the device type to which the module can be licensed.				
Not available for KA3, DA2, PM8; Klippel Dongle3 required		*Module price per 1 license, running on 1 hardware unit or 1 USB dongle				
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 ¹ of KET DUT channels that can be operated in parallel in addition to KET Base Software (¹ Discount scale based on the number of additional KET DUT channels)	Dongle3	S16	400 ² EUR	
² Base price per additional license, quantity discount from 5 KET additional DUT-channel						
Smart power amplifier for KET: Please see → page 11 (Powersoft Mezzo and UNICA series)						
Accessory for rack mounting and cabling						
2300-500	KET MEZZO Patch-Bay 1U; 8x speakON male – 8x COMBICON 4 pin	KET MEZZO Patch-Bay is a 1U 19" rack mountable connection panel for connecting up to 16 DUTs with 8 speakON cables to 4 Powersoft MEZZO 4 channel amplifiers or 8 Powersoft MEZZO 2 channel amplifiers, equipped with 4 pin COMBICON MSTB 2.5 connectors (5.08 mm pitch)		TN16	450 EUR	
2300-510	KET UNICA Patch-Bay 1U; 8x speakON male – 4x COMBICON 8 pin	KET UNICA Patch-Bay is a 1U 19" rack mountable connection panel for connecting up to 16 DUTs with 8 speakON cables to 2 Powersoft UNICA 8 channel amplifiers or 4 Powersoft UNICA 4 channel amplifiers. equipped with 4 pin COMBICON PC5 connectors (7.62 mm pitch)		TN16	540 EUR	
2300-032	Cable; speakON female - male, 5m, 4x4mm ²	speakON female to speakON male, termination 1:1, 4x4mm ² , for speaker cable extension		TN16	150 EUR	
2300-036	Cable; "Speaker", speakON female - 4mm male, 3m, 4x2.5mm ²	speakON to 4mm lab connectors, from measurement device to DUT, 4-wires with separate FORCE & SENSE wires, 3m		TN16	120 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 16 for Temperature & Humidity Sensor / QR/Barcode Scanner.						

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Item No.	Product	Explanation	Compat. HW	Spec	Price per unit	QC-EOL
Transducer Part + Material Parameter Measurement (SPM, MPM, LST)						
Measurement Bench Sets						
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	10.000 EUR	✓
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, Rev. 1.1	Small measurement bench for linear + nonlinear testing of small suspension parts (micro-speakers, headphones), Rev. 1.1 incl. Extended Clamping Ring + Adapter, 70 mm			on request	
³ Clamping for very small DUTs not available from Klippel.						
Accessory for Measurement Bench Sets						
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	2.140 EUR	✓
2500-111	Cup & Cone Set (metal)	clamping parts for SPM Bench		C2	1.800 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	
Software Module for SPM, LST, MPM Measurement*¹						
<small>The column "Compat.HW" informs about the device type to which the module can be licensed. ¹TRF Standard Software Module required ²Module price per 1 license, running on 1 hardware unit or 1 USB dongle</small>						
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	1.160 EUR	
2500-102	SPM Pro & SPM Lite Set - Suspension Part Measurement Professional & Lite Set	software for linear and nonlinear testing of transducer suspension parts with SPM Pro Bench	KA3+Dongle2 DA2	C2	2.970 EUR	
4000-242	LST Lite - Linear Suspension Test Lite	QC-Task: compliance check of spiders, cones and surrounds	KA3 PA+Dongle2 3	C6	1.290 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	2.480 EUR	✓
4000-248	LST Pro Upgrade	upgrade from LST Lite to LST Pro		C6	1.190 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	3.380 EUR	
2500-602	MSPM Pro & MSPM Lite Set - Micro Suspension Part Measurement Professional & Lite Set	software for linear and nonlinear testing of small suspension parts (micro-speakers, headphones) dB-Lab 210 or higher + LPM required	KA3 DA2	C11	8.220 EUR	
2500-210	MPM - Material Parameter Measurement	software for parameter measurement: E modulus, loss factor	DA2 KA3+Dongle2	C4	2.430 EUR	

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R&D System Software Updates (KA3 for RnD, DA2, PM8)						
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			2.570 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			3.940 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			4.350 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			4.760 EUR	
QC System Software Updates (KA3 for QC, Dongle)						
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		1.890 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		2.570 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		3.120 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		3.660 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		1.070 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		1.490 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		1.760 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		1.890 EUR	✓
Support Contracts						
6001-102	KLIPPEL R&D Support Contract	1 year term, incl. software updates from dB-Lab 210 to dB-Lab 212 + email support by KLIPPEL staff (per unit) updates from dB-Lab 206 and below to dB-Lab 212 additional surcharge, e.g., additional 50% for software update from dB-lab 206 to dB-Lab 212			2.990 EUR	
6001-200	KLIPPEL QC Support Contract	1 year term, incl. software update from the previous release of the QC software, currently from QC6 to QC7 + email support by KLIPPEL staff (per unit) percentage surcharge for software update from older QC software releases, e.g., additional 10% for the software update from QC5 to QC7			2.570 EUR	✓

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Service Measurement Hardware (KA3, DA2, PA2, PM8)						
6000-702	Manufacturer Calibration KA3 with 1 Card	KA3 calibration with formal certificate, recommended every 2 years			490 EUR	✓
6000-703	Manufacturer Calibration KA3 with 2 - 6 Cards	KA3 calibration with formal certificate, recommended every 2 years			610 EUR	✓
6000-001	Manufacturer Calibration DA, PA, PM8	DA, PM8 or PA calibration with formal certificate, recommended every 2 years			630 EUR	✓
6000-120	Modification Speaker Card - High Power Version	modification KA3 Speaker Card to High Power Version		H8	660 EUR	
6000-130	Modification QC Card for use with external amplifier	modification KA3 QC Card for use with external amplifier		H11	190 EUR	✓
6000-301	Production Analyzer Modification - High Sensitivity + Calibration	both speaker channels = High Sensitivity and Manufacturer Calibration			780 EUR	✓
6000-302	Production Analyzer Modification - Very High Sensitivity & Calibration	both speaker channels = Very High Sensitivity and Manufacturer Calibration			780 EUR	✓
6000-309	Production Analyzer Modification 0dB Mic Input Gain	both mic input channels adjusted to 0dB gain			170 EUR	✓

Item No.	Product	Explanation	Compat. HW	Spec	Price per unit	QC-EOL
Accessories**						
<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>						
Speaker Stands						
2211-100	Pro Driver Stand	transducer fixture with laser and microphone positioning (incl. laser calibration spacer), Rev. 1.6		A5	4.130 EUR	
2211-003	Microspeaker Clamping Set	micro-speaker fixture with laser fixture and microphone positioning		A10	1.890 EUR	
2211-004	Vacuum Stand	micro-speaker fixture, for use in vacuum chamber, or on SCN turn table		A10	1.350 EUR	
Power Amplifier						
2700-050	Power Amplifier; Dynacord SL900, set	2x 650/450/270W @ 2/4/8ohm, 1x 1300/900W @ 4/8ohm, incl. speakON female - female, 1.5m, 4x2,5mm ² "Amplifier" cable			1.090 EUR	✓
2700-051	Power Amplifier; Dynacord SL1200, set	2x 900/600/380W @ 2/4/8ohm, 1x 1800/1200W @ 4/8ohm, incl. speakON female - female, 1.5m, 4x2,5mm ² "Amplifier" cable			1.220 EUR	✓
2700-052	Power Amplifier; Dynacord SL1800, set	2x 1250/900/550W @ 2/4/8ohm, 1x 2800/1800W @ 4/8ohm, incl. speakON female - female, 1.5m, 4x2,5mm ² "Amplifier" cable			1.360 EUR	✓
2700-053	Power Amplifier; Dynacord SL2400, set	2x 1800/1200/750W @ 2/4/8ohm, 1x 3600/2400W @ 4/8ohm, incl. speakON female - female, 1.5m, 4x2,5mm ² "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	✓
2700-042	Power Amplifier; Powersoft UNICA 2K8, Set	8x 250/250W/250W @ 2/4/8ohm, 1x 500/500/500W @ 2/4/8ohm, DANTE network interface, internal U/I sensing			5.970 EUR	
2700-043	Power Amplifier; Powersoft UNICA 8K8, Set	8x 1000/1000W/1000W @ 2/4/8ohm, 1x 1000/2000/1500W @ 2/4/8ohm, DANTE network interface, internal U/I sensing			5.970 EUR	
2700-044	Power Amplifier; Powersoft UNICA 16K4, Set	4x 4000/4000W/2500W @ 2/4/8ohm, 1x 4500/5200/2700W @ 2/4/8ohm, DANTE network interface, internal U/I sensing			7.400 EUR	

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Laser						
High-Resolution Types						
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	8.330 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	7.810 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	5.090 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	8.330 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	7.800 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	5.090 EUR	
2103-240	Laser Sensor Head LK-H052 (for SCN only)	50mm +/-10mm measurement range, for Laser Controller rev. 2.0, incl. 5m Controller-to-KA3 cable, SCN mounting parts	KA3	A2	4.540 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	8.330 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	5.090 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	8.330 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	5.090 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	3.710 EUR	
Cost-effective Types						
2103-080	Laser Set HL-G203	30mm +/-5mm measurement range, mounted to HL-G2 Laser Plate, KLIPPEL setup loaded and secured, incl. 5m Supply & Signal cable	KA3	A2	1.740 EUR	
2103-081	Laser Set HL-G205	50mm +/-10mm measurement range, mounted to HL-G2 Laser Plate, KLIPPEL setup loaded and secured, incl. 5m Supply & Signal cable	KA3	A2	1.740 EUR	
2103-082	Laser Set HL-G208	80mm +/-20mm measurement range, mounted to HL-G2 Laser Plate, KLIPPEL setup loaded and secured, incl. 5m Supply & Signal cable	KA3	A2	1.740 EUR	
2103-083	Laser Set HL-G212	120mm +/-30mm measurement range, mounted to HL-G2 Laser Plate, KLIPPEL setup loaded and secured, incl. 5m Supply & Signal cable	KA3	A2	1.740 EUR	
Cost-effective Types – special applications						
2102-044	Laser Set IL-065 for LST with KA3	80mm +/-20mm, for LST only (incl. Controller IL-1000)	KA3	A2	1.600 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	2.110 EUR	

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Accessory for Laser						
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	
2130-002	Power Supply Set; for Laser Sensors with M8 "Signal & Supply" connection	24 Vdc PSU and M12-M8 Laser Supply cable for LK-G5000 Laser Sets with Connection Panel rev. 2.0 or HL-G2 Laser sets with M8 connection. Needed for DA2 & KET usage!	DA KET		260 EUR	
2103-802	Cable; LEMO 1B male 8pin - M8 female 4pin, 5m, Laser Supply & Signal	Laser Sensor to KA3/DA2 power supply & signal cable for Keyence LK-G5001P rev.>=2.0 or HL-G2 laser sets with M8 connection			210 EUR	

Item No.	Product	Explanation	Compat. HW	Spec	Price per unit	QC-EOL
Measurement Microphone Sets						
High Sensitivity – Free Field – Measurement Microphones: 50 mV/Pa / 20 kHz / 1/2" class						
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	1.170 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	1.440 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	1.370 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	1.540 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	2.220 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	2.280 EUR	✓
Higher SPL - Wider Bandwidth - Free Field - Measurement Microphones: 10 mV/Pa / 40 kHz / 1/2" class						
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	2.580 EUR	✓
2400-619	Mic 211E 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, 5m BNC cable		A4	1.450 EUR	
2400-618	Mic 211 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, 5m XLR cable		A4	1.760 EUR	

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Max. SPL - Widest Bandwidth - Free Field - Measurement Microphones: 5 mV/Pa / 100 kHz / 1/4" class						
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	1.570 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	1.610 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	1.830 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	1.950 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	2.710 EUR	✓
Special Application Microphones						
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	1.080 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	1.100 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	3.050 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	1.140 EUR	✓
Microphone IEPE Power Supply						
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	1.280 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	1.660 EUR	
Microphone Calibrator						
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	2.220 EUR	✓
2400-024	Mic Calibrator Adapter 1/4" for GRAS 42AG	Supplement item for GRAS 42AG Multifunction Sound Calibrator, Class 1 Adapter for MI17/MI17HL and MI18/MI18HL		A4	230 EUR	✓

KLIPPEL Analyzer System Price List

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Item No.	Product	Explanation	Compat. HW	Spec	Price per unit	QC-EOL
Simulators						
Ear Simulators Kits						
2400-095	GRAS 43AC-S5 High Frequency Ear Simulator Kit according to IEC 60318-4	Single channel (Mono) Ear Simulator Kit for In-Ear Headphones		A14	6.610 EUR	
2400-075	GRAS 43AA-S2 Ear Simulator Kit according to IEC 60318-1 & -2	Single channel (Mono) Ear Simulator Kit for On-Ear (supra-aural) and Over-Ear (circum-aural) Headphones		A14	6.220 EUR	
Ear & Cheek Simulator Kit with Pinna						
2400-064	GRAS 43AG-7 High Frequency Ear & Cheek Simulator Kit with Pinna acc. to IEC 60711-4 & -7	Single channel (Mono) High Frequency Ear & Cheek Simulator Kit for earphones of various types (1x Large Right Ear incl.)		A14	8.260 EUR	
Headphone & Headset Test Fixtures						
2400-079	GRAS 45CC-2 Headphone Test Fixture	Headphone Test Fixture with two channel (Stereo) flush mount microphones for On-Ear (supra-aural) and Over-Ear (circum-aural) headphones, IEPE variant, including all needed microphones, accessories and cables		A14	8.520 EUR	
2400-081	GRAS 45CC-4 Headphone Test Fixture with Ear Simulator	Headphone Test Fixture with two channel (Stereo) Ear Simulator for On-Ear (supra-aural) and Over-Ear (circum-aural) Headphones, IEPE variant, including all needed microphones, accessories and cables		A14	11.910 EUR	
2400-098	GRAS 45CC-17 Headphone Test Fixture with Ear & Cheek Simulator and Pinna, High Frequency variant	GRAS 45CC-17 Headphone Test Fixture with Ear & Cheek Simulator and Pinna, High Frequency variant		A14	14.510 EUR	
Head & Torso Simulators						
2400-093	GRAS 45BB-14 KEMAR with Anthropometric Pinna for HF Ear- and Headphone Test	Two channel (Stereo) Head- & Torso Simulator Kit for earphones of various types with frequency range up to 20kHz		A14	35.930 EUR	
2400-092	GRAS 45BC-14 KEMAR with Mouth Simulator, Anthropometric Pinna for HF Headset Test, Set	Two channel (Stereo) Head- & Torso Simulator Kit with Mouth Simulator for high frequency headset of various types		A14	39.000 EUR	
Mouth Simulators						
2400-073	GRAS 44AA Mouth Simulator, according to ITU-T Rec. P51 Set	with built-in power-amplifier, incl. CCITT P51 jig, IEEE 269 jig, 24 Vdc power supply, 5 m BNC cable, XLR-BNC adapter		A15	4.130 EUR	
2400-077	GRAS 44AB Mouth Simulator, according to ITU-T Rec. P51 Set	without built-in power-amplifier, incl. CCITT P51 jig, IEEE 269 jig		A15	3.540 EUR	
Sound Sources						
2800-500	Genelec 8010A (Compact, Active Two-way Speaker), Set	Compact, analog sound source with balanced XLR input (96 dB, 74 Hz – 20 kHz) for EoL testing of microphones, headsets, voice-controlled devices, incl. Cable XLR male - XLR female, 5 m		A15	on request	
2800-501	Genelec 8330A SAM (Active Two-way Speaker)	SP controlled sound source with balanced XLR input (104 dB, 58 Hz – 20 kHz) for testing microphones, headsets, voice-controlled devices, incl. cable XLR male - XLR female, 5 m		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, incl. cable XLR male - XLR female, 5 m		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	

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Item No.	Product	Explanation	Compat. HW	Spec	Price per unit	QC-EOL
Vacuum Measurement Sets						
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	3.370 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	4.490 EUR	
Multiplexer						
2800-101	Multiplexer BNC	MUX81-42 BNC (Mic version, 8 x 1 or 4 x 2)		A8	1.920 EUR	✓
2800-102	Multiplexer XLR-IN	MUX81-42-XLR-IN (LINE-IN version, 8 x 1 or 4 x 2)		A8	2.190 EUR	✓
2800-103	Multiplexer XLR-OUT	MUX81-42-XLR-OUT (LINE-OUT version, 1 x 8 or 2 x 4)		A8	2.190 EUR	✓
2800-104	Multiplexer SPEAKON	MUX81-42-SPEAKON (Speaker version, 8 x 1 or 4 x 2 / 1 x 8 or 1 x 4)		A8	2.020 EUR	✓
2800-105	Multiplexer SPEAKON with "Shortcut" modification	MUX81-42-SPEAKON (Speaker version, 8 x 1 or 4 x 2 / 1 x 8 or 1 x 4) with "Shortcut" modification, deselected channels get shorted 1+ with 1- and 2+ with 2-		A8	2.020 EUR	

Item No.	Product	Explanation	Compat. HW	Spec	Price per unit	QC-EOL
Miscellaneous						
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	390 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	2.150 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	

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., or sound sources of the manufacturer GENELEC
- speaker cable, extension cable, amplifier cable, supply and signal cable, clips