

## QC 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	7.680 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	✓
2000-330	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	✓
2000-324	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 ( <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	6.700 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	6.700 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	6.540 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	6.540 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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Item No.	Product	Explanation	Compat. HW	Spec	Price per unit		QC-EOL
<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>		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.					
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
<b>Software QC Tasks and Software Add-on for QC 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>Transducer Parameter Identification Modules*</b>							
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	✓
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	✓
<b>Frequency Response + Distortion Modules*</b>							
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	✓
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	✓

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<b>QC Software version for use with 3<sup>rd</sup> party hardware (audio interface)</b> (Does not work with the Klippel Analyzer or Production Analyzer.)						
<b>QC Stand-alone Software*</b> 3 <sup>rd</sup> party audio interface 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.				
4006-001	QC Stand-Alone Software Set, Rel. QC7	EOL-testing with 3rd party audio interface, basis software, additional QC tasks required Klippel Dongle required	Dongle3	C3	2.480 EUR	✓
<b>Please select the appropriate QC Tasks for QC Stand-alone Software:</b>						
<b>QC Tasks for QC Stand-alone Software*</b> 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) <sup>1</sup>		C3	1.280 EUR	✓

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

Item No.	Product	Explanation	Compat. HW	Spec	Price per unit	QC-EOL
<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	1.890 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	✓

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	1.700 EUR	✓
4000-220	MSP - Match-Speaker-Tool	find best matching pairs from a pool of speakers	Dongle2	S15	2.570 EUR	✓

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Item No.	Product	Explanation	Compat. HW	Spec	Price per unit	QC-EOL
<b>Transducer Part + Material Parameter Measurement (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	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	✓
<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	2.140 EUR	✓
2500-301	Cone Set (plastic)	clamping parts for LST Bench (SPM Bench)		C6	590 EUR	✓
<b>Software Module for LST 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			
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	✓

Item No.	Product	Explanation	Compat. HW	Spec	Price per unit	QC-EOL
<b>Laser</b>						
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	✓
2102-044	Laser Set IL-065 for LST with KA3	80mm +/-20mm, for LST only (incl. Controller IL-1000)	KA3	C6	1.600 EUR	✓

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Item No.	Product	Explanation	Compat. HW	Spec	Price per unit	QC-EOL
<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		1.890 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	✓
<b>Support Contracts</b>						
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) <b>percentage surcharge for software update from older QC software releases, e.g., additional 10% for the software update from QC5 to QC7</b>			2.570 EUR	✓

Item No.	Product	Explanation	Compat. HW	Spec	Price per unit	QC-EOL
<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			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	✓
6000-130	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	✓

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<b>Accessories**</b>						
**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						
<b>Power Amplifier</b>						
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 <sup>2</sup> "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 <sup>2</sup> "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 <sup>2</sup> "Amplifier" cable			1.410 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 <sup>2</sup> "Amplifier" cable			1.680 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	✓

Item No.	Product	Explanation	Compat. HW	Spec	Price per unit	QC-EOL
<b>Multiplexer</b>						
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	✓

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	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	✓

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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	1.170 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	✓
2400-602	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	✓
<b>Higher SPL - Wider Bandwidth - Free Field - Measurement Microphones: 10 mV/Pa / 40 kHz / 1/2" class</b>						
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	✓
<b>Max. SPL - Widest Bandwidth - Free Field - Measurement Microphones: 5 mV/Pa / 100 kHz / 1/4" class</b>						
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	✓
2400-607	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	✓
<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	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	✓
<b>Microphone IEPE Power Supply</b>						
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	✓
<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	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/MIHL and MI18/MI8HL		A4	230 EUR	✓

## QC 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>Simulators</b>						
<b>Ear Simulators Kits</b>						
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	✓
<b>Ear &amp; Cheek Simulator Kit with Pinna</b>						
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	✓
<b>Headphone &amp; Headset Test Fixtures</b>						
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	✓
<b>Head &amp; Torso Simulators</b>						
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	✓
<b>Sound Sources</b>						
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	

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

This document is subject to change without notice. Errors and omissions excepted.