

## QC System Price List

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

Item No.	Product	Explanation	Compat. HW	Spec	Price per unit
<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
2000-330	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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Item No.	Product	Explanation	Compat. HW	Spec	Price per unit
<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>					
<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>					
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	4.380 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	1.990 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	1.990 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	2.390 EUR
4005-300	QC Remote Configuration Software, Release QC7	allows modification of limits and set up without hardware	Dongle3	S14	1.720 EUR

Item No.	Product	Explanation	Compat. HW	Spec	Price per unit
<b>Software QC Tasks and Software Add-on for QC Software</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>					
<b>Transducer Parameter Identification Modules*</b>					
4000-262	IMP - Impedance Task	QC-Task: linear parameter measurement (TS-Parameter)	KA3  PA+Dongle3	C3	1.250 EUR
4000-265	TSX - QC Laser Fitting	Add-on for IMP Task: Thiele Small parameter identification with laser	KA3	C3	1.140 EUR
4000-230	MSC - Motor + Suspension Check	QC-Task: fast measurement of voice coil offset and suspension asymmetry	KA3  PA+Dongle2 3	S13	6.570 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	6.910 EUR
<b>Frequency Response + Distortion Modules*</b>					
4000-003	MTD Multi-tone Distortion Task	QC-Task: multitone-fundamental and distortion	KA3  PA+Dongle3	S68	1.990 EUR
4000-240	ALD - Air Leak Detection	QC-Task: detect air leaks in transducers and audio systems	KA3  PA+Dongle2 3	S18	4.260 EUR
4000-243	ALS - Air Leak Stethoscope	QC-Task: localization of air leaks in loudspeaker systems	KA3  PA+Dongle2 3	S30	3.710 EUR
4000-263	SPL - Sound pressure based acoustic tests	QC-Task: measurement of frequency response, THD and Rub&Buzz	KA3  PA+Dongle3	C3	1.850 EUR
4000-200	MHT - Meta Hearing Technology	Add-on for SPL Task: defect detection beyond human hearing	KA3  PA+Dongle2 3	S20	1.810 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	1.130 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	890 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	4.250 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 (spectrogram) analysis dB-Lab 212 / QC7 or higher required	KA3  PA+Dongle3	S63	1.330 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	1.180 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, Release QC7	EOL-testing with 3rd party audio interface, basis software, additional QC tasks required Klippel Dongle required	Dongle3	C3	2.420	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 based acoustic tests	QC-Task: measurement of frequency response, THD and Rub&Buzz		C3	1.850	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	1.180	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	1.850	EUR
4000-262	IMP - Impedance Task	QC-Task: linear parameter measurement (TS-Parameter) <sup>1</sup>		C3	1.250	EUR

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

Item No.	Product	Explanation	Compat. HW	Spec	Price per unit	
<b>Software Add-ons for QC Standard, QC Stand-alone, or QC-Tasks*</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.			
1001-107	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	1.850	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	3.050	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	660	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	1.330	EUR

Item No.	Product	Explanation	Compat. HW	Spec	Price per unit	
<b>Post-Processing Tools (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.			
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	1.660	EUR
4000-220	MSP - Match-Speaker-Tool	find best matching pairs from a pool of speakers	Dongle2	S15	2.510	EUR

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<b>Transducer Part 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	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 <b>Note: Clamping for very small DUTs not available from Klippel.</b> Limited quantity in stock, subject to availability and prior sale. A new production batch is only created when a sufficient number of customer orders have been received.		A12	on request
<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	1.980 EUR
2500-301	Cone Set (plastic)	clamping parts for LST Bench (SPM Bench)		C6	590 EUR
<b>Software Module for LST Measurement*</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>					
4000-242	LST Lite - Linear Suspension Test Lite	QC-Task: compliance check of spiders, cones and surrounds	KA3  PA+Dongle2 3	C6	1.260 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	2.420 EUR
4000-248	LST Pro Upgrade	upgrade from LST Lite to LST Pro		C6	1.160 EUR

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Item No.	Product	Explanation	Compat. HW	Spec	Price per unit
<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		1.850 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		2.510 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		3.050 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		3.580 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		3.990 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		1.050 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		1.460 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		1.720 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		1.850 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		2.120 EUR
<b>Support Contract</b>					
6001-200	KLIPPEL QC Support Contract	1 year term, incl. software updates + 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 QCS to QC7</b>			2.510 EUR
<b>Service Measurement Hardware (KA3, PA2)</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		H4	780 EUR
6000-302	Production Analyzer Modification - Very High Sensitivity & Calibration	both speaker channels = Very High Sensitivity and Manufacturer Calibration		H4	780 EUR
6000-309	Production Analyzer Modification 0dB Mic Input Gain	both mic input channels adjusted to 0dB gain		H4	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	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			1.500	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
<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	8.320	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	8.180	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
<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
<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	KA3  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
<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	

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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
2400-602	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>						
2400-503	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>						
2400-612	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
2400-607	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	2.650	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	1.020	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	1.040	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



## 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
<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	2.180 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	210 EUR

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