

## KLIPPEL Analyzer System Price List

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

| Item No.  | Product   | Explanation  | Compat. HW | Spec      | Price per unit | QC-EOL |
|---|---|--|------------|-----------|----------------|--------|
| <b>Measurement Hardware</b>                             |   |  |            |           |                |        |
| 2000-300  | KA3 - Klippel Analyzer 3 (LSX) default configuration, Set       | incl. Laser-Card, Speaker-Card, XLR-Card, power supply, cable set, project management software (dB-Lab 212)  |            | H3        | 7.680 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<br>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<br>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 ( <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<br>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<br>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<br>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<br>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<br>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<br>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.<br>HW                      | Spec             | Price<br>per unit | QC-<br>EOL |
|---|---|--|------------------------------------|------------------|-------------------|------------|
| <b>Multi-Scanning Workbench (Hardware Components)</b><br><b>robot for the following measurements: SCN, NFS half-space 2pi driver and small loudspeaker system, BFS</b>  |   |  |                                    |                  |                   |            |
| 2530-001  | Multi-Scanning Workbench, Set                                       | NFS and SCN Scanning Hardware for measuring transducers and systems of limited size in half-space (2pi)<br>complete hardware platform for performing vibration, sound pressure, and B-Field scans<br>External sensors not included: Please select laser set, microphone set, BFS sensor. |                                    | C5<br>C12        | 26.100 EUR        |            |
| <b>Software Packages for Multi-Scanning Workbench<sup>1</sup></b> <div> The column "Compat.HW" informs about the device type to which the module can be licensed.<br/> <sup>1</sup>TRF Standard Software Module required </div>                       |   |  |                                    |                  |                   |            |
| 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<br>(2 licenses for KA3 or DA + USB Dongle)<br>dB-Lab 212 required   | KA3+Dongle3<br>DA2                 | C5<br>C12<br>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 <br>KA3 +<br>2xDongle2 | C5               | 18.330 EUR        |            |
| <b>Optional Software Modules for SCN Multi-Scanning Workbench</b> <div> The column "Compat.HW" informs about the device type to which the module can be licensed.<br/> *Module price per 1 license, running on 1 hardware unit or 1 USB dongle </div> |   |  |                                    |                  |                   |            |
| 2520-017  | NFS Multi-Source Superposition Software                             | 2pi: comfortable superposition for simulation of two-way / three-way speaker systems<br>4pi: comfortable scanning of multiple transducers of a loudspeaker array (Multiplexer recommended)   | KA3 DA2<br>+ 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<br>+ Dongle3               | C8               | 9.290 EUR         |            |
| <b>Vibrometry Postprocessing Software Modules*</b> <div> The column "Compat.HW" informs about the device type to which the module can be licensed.<br/> *Module price per 1 license, running on 1 hardware unit or 1 USB dongle </div>                |   |  |                                    |                  |                   |            |
| 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)<br>dB-Lab 212 or higher required   | KA3 DA2 <br>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)<br>dB-Lab 212 or higher required  | Dongle3                            | S45              | 2.030 EUR         |            |
| <b>SCN NF Add-On - Upgrade for SCN Vibrometer Set*</b><br>*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<br>External sensor not included: Please select 1/4" microphone set (Mic 40PP-10 IEPE Set recommended)  | KA3 DA2<br>SCN                     | C12              | 3.100 EUR         |            |

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| Item No.   | Product                                 | Explanation   | Compat.<br>HW | Spec | Price<br>per unit | QC-<br>EOL |
|--|---|---|---------------|------|-------------------|------------|
| <b>SCN Software Update and SCN Analysis Software without SCN Hardware</b>  |   | The column "Compat.HW" informs about the device type to which the module can be licensed.<br>*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<br>SCN Software Version 1 sold with dB-Lab 202 and below<br>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,<br>for 1 USB Dongle, <b>without SCN Hardware</b> (no SCN robotics incl., not for SCN measurements, SCN data analysis only - post-processing of SCN measuring results) | Dongle2       | C5   | 17.740 EUR        |            |
| <b>Extension for Multi-Scanning Workbench – B-Field Measurement (BFS) (Cylindrical magnetic motor systems)<sup>2</sup></b><br><sup>2</sup> rectangular or elliptic shape loudspeaker magnets: no automatic measurement, BFS Sensor: hand-held probe or measurement at fixed angles |   |   |               |      |                   |            |
| <b>BFS - Hardware Components</b>   |   |   |               |      |                   |            |
| 2510-211   | BFS-Sensor                              | sensor for B-field measurement, accessory for Klippel Analyzer KA3 + SCN or stand-alone with KA3<br>File with the calibration data of the BFS sensor is provided.   |               | A11  | 750 EUR           |            |
| <b>BFS - Software Module*</b>  |   | The column "Compat.HW" informs about the device type to which the module can be licensed.<br>*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<br>(KA3, SCN Vibrometer Set, and dB-Lab 212 required)  | KA3 DA2       | S47  | 4.210 EUR         |            |

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| Item No.   | Product   | Explanation   | Compat. HW                 | Spec | Price per unit | QC-EOL |
|--|---|---|----------------------------|------|----------------|--------|
| <b>NFS Holographic Near Field Measurement - Hardware Components for small and large loudspeaker systems and driver in full-space (4pi)</b>   |   |   |                            |      |                |        |
| 2520-023   | Carousel Hardware (Extended size w/ 2 m Z-axis)                               | NFS Scanning Hardware for measuring small and large loudspeaker systems in full space (4pi) special version with 2 m Z-axis<br>Please make sure to fulfil the requirement in regard to the room size. | KA3 DA2                    | C8   | 51.700 EUR     |        |
| <b>NFS Holographic Near Field Measurement (Software Components)<sup>1</sup></b> <small>The column "Compat.HW" informs about the device type to which the module can be licensed.<br/>*Module price per 1 license, running on 1 hardware unit or 1 USB dongle</small>         |   |   |                            |      |                |        |
| <sup>1</sup> TRF Standard Software Module required   |   |   |                            |      |                |        |
| 1000-900   | TRF Standard - Transfer Function Measurement Standard                         | measurement of transfer function and harmonic distortion  | KA3 DA2                    | S7   | 1.280 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<br>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<br>+ 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.)<br>SCN-NF: enables detailed evaluation directly in the near field  | KA3 DA2<br>+ 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<br>+ Dongle3       | C8   | 9.290 EUR      |        |
| 2520-017   | NFS Multi-Source Superposition Software                                       | 2pi: comfortable superposition for simulation of two-way / three-way speaker systems<br>4pi: comfortable scanning of multiple transducers of a loudspeaker array (Multiplexer recommended)            | KA3 DA2<br>+ Dongle3       | C8   | 3.800 EUR      |        |
| <b>Please select a suitable Measurement Microphone for the NFS Holographic Near Field Measurements (1/4" Mic Set) →</b><br>Recommended for NFS HW Rev.1.09: Mic 301E 48V 1/4" Set (2400-616)<br>Recommended for NFS HW Rev.1.08 and below: Mic 301E IEPE 1/4" Set (2400-617) |   |   |                            |      |                |        |
| <b>Additional components for measuring multiple DUTs at once: Multiplexer → See page 16</b>  |   |   |                            |      |                |        |
| <b>Additional components for measuring Bluetooth DUTs: Bluetooth Converter → See page 16</b>   |   |   |                            |      |                |        |

| Item No.   | Product                           | Explanation   | Compat. HW | Spec | Price per unit | QC-EOL |
|--|-----------------------------------|---|------------|------|----------------|--------|
| <b>Polar Far-Field Measurement (POL)</b>   |                                   |   |            |      |                |        |
| <b>Software Module for Polar Far-Field Measurement*<sup>1</sup></b> <small>The column "Compat.HW" informs about the device type to which the module can be licensed.<br/>*Module price per 1 license, running on 1 hardware unit or 1 USB dongle</small> |                                   |   |            |      |                |        |
| <sup>1</sup> TRF Standard Software Module required   |                                   |   |            |      |                |        |
| 1001-103   | POL - Polar Far Field Measurement | anechoic directivity measurement and visualisation (CEA 2034)<br>(TRF Standard, dB-Lab 210 or higher, and turntable required) | KA3 DA2    | S41  | 2.890 EUR      |        |
| <b>Hardware Component for Polar Far-Field Measurement</b>  |                                   |   |            |      |                |        |
| 2560-002   | Turntable Outline ET250R2-3D Set  | precision turntable for polar measurement, <b>high load - lower speed type</b> , incl. power cord, 3 m RJ45 Cat6 cable        | KA3, DA2   |      | 6.850 EUR      |        |
| 2560-003   | Turntable Outline ET50-3D Set     | precision turntable for polar measurement, <b>high speed - lower load type</b> , incl. power cord, 3 m RJ45 Cat6 cable        | KA3, DA2   |      | 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.<br>*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<br><b>- annual license -</b><br>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)<br>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<br>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.<br>*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 <br>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<br>PA: (DC input modification of Production Analyzer Hardware required)                            | KA3 <br>PA+Dongle3  | S37  | 4.350             | EUR | ✓          |
| 4000-266                                      | 3DL - Spectrogram 3D Limits (≥ dB-Lab 212 required / QC7)             | Add-on for SPL Task: powerful and intuitive defect (Rub & Buzz) analysis based on auditory time/frequency (spectrogram) analysis<br>dB-Lab 212 / QC7 or higher required      | KA3 <br>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 <br>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 |            |

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|--|-----------------------------------|---|-----------------------|------|-------------------|------------|
| <b>Simulation, Auralization Modules*</b> |                                   |   |                       |      |                   |            |
| 1000-300                                 | LSIM - Linear Simulation          | fast and comprehensive simulation of the linear transfer behavior of transducers and passive/active loudspeaker systems (dB-Lab 212 or higher required) | KA3 Dongle3           | S58  | 3.460 EUR         |            |
| 1000-310                                 | SIM - Simulation                  | linear, nonlinear and thermal simulation  | KA3 DA2 <br>Dongle2 3 | S3   | 4.850 EUR         |            |
| 1000-601                                 | SIM-AUR - Simulation Auralization | simulation and auralization of large signal speaker performance (music)   | KA3 DA2 <br>Dongle3   | S24  | 5.860 EUR         |            |

| Item No.                                 | Product                            | Explanation   | Compat.<br>HW       | Spec | Price<br>per unit | QC-<br>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         | ✓          |
| 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<br>dB-Lab 210 or higher required | KA3 DA2 <br>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 <br>Dongle3  | S53  | 640 EUR           |            |

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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> |   |   |                          |      |                |        |
| 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.<br>HW   | Spec | Price<br>per unit |     | QC-<br>EOL |
|--|---------------------------------------|--|---|------|-------------------|-----|------------|
| QC Software version for use with 3 <sup>rd</sup> party hardware (audio interface)<br>(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.<br>*Module price per 1 license, running on 1 hardware unit or 1 USB dongle. |      |                   |     |            |
| 3 <sup>rd</sup> party audio interface required   |                                       |  |   |      |                   |     |            |
| 4006-001   | QC Stand-Alone Software Set, Rel. QC7 | EOL-testing with 3rd party audio interface, basis software, additional QC tasks required<br>Klippel Dongle required  | Dongle3   | C3   | 2.480             | EUR | ✓          |
| Please select the appropriate QC Tasks for QC Stand-alone Software:  |                                       |  |   |      |                   |     |            |
| 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) <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   | copied 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)<br>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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| Item No.   | Product   | Explanation  | Compat.<br>HW   | Spec | Price<br>per unit |     | QC-<br>EOL |
|--|---|--|---|------|-------------------|-----|------------|
| <b>Klippel Endurance Test (KET)*</b>   |   |  | 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 <sup>1</sup> of KET DUT channels that can be operated in parallel in addition to KET Base Software<br><sup>(1)</sup> Discount scale based on the number of additional KET DUT channels)                    | Dongle3   | S16  | 400 <sup>2</sup>  | EUR |            |
| ²Base price per additional license, quantity discount from 5 KET additional DUT-channel  |   |  |   |      |                   |     |            |
| Smart power amplifier for KET: Please see → page 11 ( <i>Powersoft Mezzo and UNICA series</i> )  |   |  |   |      |                   |     |            |
| Accessory for rack mounting and cabling  |   |  |   |      |                   |     |            |
| 2300-500   | KET <b>MEZZO Patch-Bay</b><br>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 <b>UNICA Patch-Bay</b><br>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, 4x4mm²                              | speakON female to speakON male, termination 1:1, 4x4mm², for speaker cable extension   |   | TN16 | 150               | EUR |            |
| 2300-036   | Cable; "Speaker", speakON female - 4mm male, 3m, 4x2.5mm²             | 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.<br>HW  | Spec     | Price<br>per unit |     | QC-<br>EOL |
|--|---|--|--|----------|-------------------|-----|------------|
| Transducer Part + Material Parameter Measurement (SPM, MPM, LST) |   |  |  |          |                   |     |            |
| Measurement Bench Sets   |   |  |  |          |                   |     |            |
| 2500-101   | SPM Pro Bench   | for RnD: SPM Pro/Lite<br>for QC: LST testing<br>incl. external laser mounting<br>not included: clamping parts, laser, microphone   |  | C2<br>C6 | 10.000            | EUR | ✓          |
| 2500-300   | LST Bench Set - for<br>Internal Laser   | for QC: LST testing of spiders, surrounds, cones,<br>passive radiators, incl. internal laser mounting and<br>adjustment slider<br>not included: clamping parts, laser, microphone  |  | C6       | 1.290             | EUR | ✓          |
| 2500-310   | LST Bench Set - for<br>External Laser   | for QC: LST testing<br>for RnD: linear SPM & MPM measurements of spiders,<br>surrounds, cones, passive radiators,<br>incl. external laser mounting and adjustment bar<br>not included: clamping parts, laser, microphone |  | C6       | 1.690             | EUR | ✓          |
| 2500-604   | MSPM Bench Set, Rev.<br>1.1   | Small measurement bench for linear + nonlinear testing<br>of small suspension parts (micro-speakers,<br>headphones), Rev. 1.1 incl. Extended Clamping Ring +<br>Adapter, 70 mm   |  |          | on<br>request     |     |            |
| ³Clamping for very small DUTs not available from Klippel.        |   |  |  |          |                   |     |            |
| Accessory for Measurement Bench Sets                             |   |  |  |          |                   |     |            |
| 2500-142   | HW Add-On - Internal<br>Laser Fixture Set - for<br>LST Bench                                  | 2-dimensional internal Laser mounting and adjustment<br>unit, incl. mounting brackets and screws, distance<br>adjustment washer set, requires LST Bench  |  | C6       | 390               | EUR | ✓          |
| 2500-141   | HW Add-On - External<br>Laser Fixture - for LST<br>Bench                                      | 2-dimensional external laser mounting and adjustment<br>boom, incl. sensor slide rail, laser sensor rod, requires<br>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<br>Bench  | MPM measurement clamping set as accessory for SPM<br>Pro Bench   |  | C4       | 890               | EUR |            |
| 2500-220   | MPM Clamp for LST<br>Bench Set, incl. LST<br>Fixing Grips                                     | MPM measurement clamping set incl. LST Fixing Grips<br>as accessory for LST Bench  |  | C4       | 1.150             | EUR |            |
| Software Module for SPM, LST, MPM Measurement*¹                  |   |  | The column "Compat.HW" informs about the device type to which the module can be licensed.<br>*Module price per 1 license, running on 1 hardware unit or 1 USB dongle |          |                   |     |            |
| ¹TRF Standard Software Module required                           |   |  |  |          |                   |     |            |
| 2500-103   | SPM Lite - Suspension<br>Part Measurement Lite  | software for linear testing of transducer suspension<br>parts with LST Bench or SPM Pro Bench  | KA3+Dongle2 <br>DA2  | C2       | 1.160             | EUR |            |
| 2500-102   | SPM Pro & SPM Lite Set -<br>Suspension Part<br>Measurement<br>Professional & Lite Set         | software for linear and nonlinear testing of transducer<br>suspension parts with SPM Pro Bench   | KA3+Dongle2 <br>DA2  | C2       | 2.970             | EUR |            |
| 4000-242   | LST Lite - Linear<br>Suspension Test Lite   | QC-Task: compliance check of spiders, cones and<br>surrounds   | KA3 <br>PA+Dongle2 3   | C6       | 1.290             | EUR | ✓          |
| 4000-244   | LST Pro - Linear<br>Suspension Test<br>Professional   | QC-Task: LST Lite features + monitoring mass and<br>stiffness deviation for passive radiators  | KA3 <br>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<br>Suspension Part<br>Measurement Lite                                      | software for linear testing of small suspension parts<br>(micro-speakers, headphones)<br>dB-Lab 210 or higher required   | KA3 DA2  | C10      | 3.380             | EUR |            |
| 2500-602   | MSPM Pro & MSPM Lite<br>Set - Micro Suspension<br>Part Measurement<br>Professional & Lite Set | software for linear and nonlinear testing of small<br>suspension parts (micro-speakers, headphones)<br>dB-Lab 210 or higher + LPM required   | KA3 DA2  | C11      | 8.220             | EUR |            |
| 2500-210   | MPM - Material<br>Parameter Measurement   | software for parameter measurement: E modulus, loss<br>factor  | DA2<br>KA3+Dongle2   | C4       | 2.430             | EUR |            |

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| Item No.   | Product                                | Explanation   | Compat. HW | Spec | Price per unit | QC-EOL |
|--|--|---|------------|------|----------------|--------|
| <b>R&amp;D System Software Updates (KA3 for RnD, DA2, PM8)</b> |  |   |            |      |                |        |
| 1000-020   | Update dB-Lab 210 to 212 (per KA3/DA2) | project management software update to dB-Lab version 212 from dB-Lab 210 incl. purchased software modules for the particular KA3 or DA2   |            |      | 2.570 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      |        |
| <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<br>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<br>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<br>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<br>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<br>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<br>New Klippel Dongle required.  | Dongle3    |      | 1.890 EUR      | ✓      |
| <b>Support Contracts</b>                                       |  |   |            |      |                |        |
| 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<br><b>additional surcharge, e.g., additional 50% for software update from dB-lab 206 to dB-Lab 212</b>                                    |            |      | 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)<br><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      | ✓      |

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| Item No.  | Product  | Explanation  | Compat.<br>HW | Spec | Price<br>per unit |     | QC-<br>EOL |
|---|--|--|---------------|------|-------------------|-----|------------|
| 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.<br>HW  | Spec | Price<br>per unit |     | QC-<br>EOL |
|------------------------|---|---|--|------|-------------------|-----|------------|
| <b>Accessories**</b>   |   |   | **Prices for accessories from other suppliers (microphones, lasers, amplifiers, simulators) are valid only in combination with KLIPPEL Analyzer System.<br>Also available on request:<br>- Various types of microphones from Microtech Gefell and G.R.A.S.<br>- Several cables |      |                   |     |            |
| <b>Speaker Stands</b>  |   |   |  |      |                   |     |            |
| 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 |            |
| <b>Power Amplifier</b> |   |   |  |      |                   |     |            |
| 2700-050               | Power Amplifier;<br>Dynacord SL900, set       | 2x 650/450/270W @ 2/4/8ohm, 1x 1300/900W @ 4/8ohm, incl. speakON female - female, 1.5m, 4x2,5mm² "Amplifier" cable    |  |      | 1.090             | EUR | ✓          |
| 2700-051               | Power Amplifier;<br>Dynacord SL1200, set      | 2x 900/600/380W @ 2/4/8ohm, 1x 1800/1200W @ 4/8ohm, incl. speakON female - female, 1.5m, 4x2,5mm² "Amplifier" cable   |  |      | 1.220             | EUR | ✓          |
| 2700-052               | Power Amplifier;<br>Dynacord SL1800, set      | 2x 1250/900/550W @ 2/4/8ohm, 1x 2800/1800W @ 4/8ohm, incl. speakON female - female, 1.5m, 4x2,5mm² "Amplifier" cable  |  |      | 1.360             | EUR | ✓          |
| 2700-053               | Power Amplifier;<br>Dynacord SL2400, set      | 2x 1800/1200/750W @ 2/4/8ohm, 1x 3600/2400W @ 4/8ohm, incl. speakON female - female, 1.5m, 4x2,5mm² "Amplifier" cable |  |      | 1.610             | EUR | ✓          |
| 2700-040               | Power Amplifier;<br>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;<br>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;<br>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;<br>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;<br>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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| Item No.                                    | Product                                  | Explanation   | Compat.<br>HW | Spec | Price<br>per unit |     | QC-<br>EOL |
|---|--|---|---------------|------|-------------------|-----|------------|
| 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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| Item No.                   | Product  | Explanation   | Compat. HW | Spec | Price per unit | QC-EOL |  |
|----------------------------|--|---|------------|------|----------------|--------|--|
| <b>Accessory for Laser</b> |  |   |            |      |                |        |  |
| 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 |   |
|--|-------------------------|--|------------|------|----------------|--------|---|
| <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    | ✓ |
| 2400-015   | 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    | ✓ |
| <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    | ✓ |
| 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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| Item No.   | Product  | Explanation   | Compat.<br>HW | Spec | Price<br>per unit |     | QC-<br>EOL |
|--|--|---|---------------|------|-------------------|-----|------------|
| Max. SPL - Widest Bandwidth - Free Field - Measurement Microphones: 5 mV/Pa / 100 kHz / ¼" class |  |   |               |      |                   |     |            |
| 2400-617   | Mic 301E IEPE 1/4" Set<br>(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<br>(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<br>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<br>Adapter for MI17/MIHL and MI18/MI8HL   |               | A4   | 230               | EUR | ✓          |



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| Item No.                             | Product  | Explanation  | Compat.<br>HW | Spec | Price<br>per unit |     | QC-<br>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.<br>HW | Spec | Price<br>per unit |     | QC-<br>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.<br>HW       | Spec | Price<br>per unit |     | QC-<br>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<br>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