




06	<b>Shuttle - Electronics-Carrier</b> No.: 0GP-SH001 	1.895,00	Standard 101x220 mm [WxL] Adjustable Width 108-310 mm
07	<b>Calibration Service Electronics</b> No.: 340	485,00	Certificate with DKD reference + New PTP SW on MD
08	<b>Calibration Measuring Board</b> No.: 340	215,00	Delivery Option
09	<b>Check electronics / measuring board</b> No: 340	95,00	Check battery, Check functionality New programming Firmware, RF Power, Basic checkup
10	<b>Local Service within Europe / world, Oven Check-up, Measurements, Software Setup and Training</b>	by arrangement	About 6 h., incl. Measurements and Evaluations of Profile Data
11	<b>Aluminium Case with inlay for PTP® Electronics and Shuttle (spare part)</b> No.: 339978 	185,00	Standard equipment of Electronics, Shuttle, Measuring Board  (without contents)

## REMARKS

- Measuring Boards/Pallets are supplied in a antistatic equipment case (Aluminum Case). This contains 8 thermal cables beside the Measuring Board in accordance with DIN International Electronical Commission 584 (used to connect the measuring sensors with the measuring electronics and optionally the measuring board calibration certificate.  
Further Manuales on Memory Drive.
- Measuring Electronics consists of 2 transceiver modules (1 x stationary nearby the oven, 1 x mobile on the Measuring Board and/or Shuttle) with 8 channels and the accessories each: 1 charging adapter for USB (VP only), 1 USB data cable, 2 antennas 50R, 8 K-Type miniature thermocouples class 1, NiCr-Ni, in accordance with ISO IEC 584, size 2x0,2x300 mm and the Electronics Calibration Certificate. Electronics and PTP® Software are usable for all Measuring Boards (Reflow, Wave and Selective). The software (German, English, Russian, Spanish, Italian, Portuguese and Chinese ) is supplied on Memory Drive and contains among other documents all manuals (user manual PTP®, start-up guidance, calibration and upgrade information ) in pdf format. For Reflow and Wave measurements the evaluation of Profiles and soldering ovens is inbuilt/possible! All upgrades of the PTP® Software are free! Customized Measuring Boards and software adaption on request.

- Electronics Carrier / Shuttle permits the use of PTP© Electronics without Measuring Board . The Shuttle (Reflow Convection) with thermal protection, adjustable width and an inbuilt antenna for the connection of measuring electronics. This carrier board can be adapted over extenders to different transportation widths. A special VP Shuttle carries the VP Electronics. Both Shuttles serve for measurements on user material / printed circuit boards or are used on PTP© Measuring Boards. Specially Shuttle Sizes on request.
- Customized sizes are all deviations from the standard measuring board size 300x390 mm [ WxL ], as well as customer specific adjustments for up to 20 sensors (e.g. adjustments for soldering frames, special measuring standards etc.).
- The local service at customer site covers start-up, function test (profile measurement) of the measuring system, software installation as well as a briefing (software operation, bases for the profile measurement, measuring preparation and measurements).
- Measuring electronics (forwarding of the 2 Transceiver modules) is calibrated with reference to thermal standards within 1 day. The new calibration is activated by software. The calibration service should take place annually.
- Measuring Boards / Thermocouples will be calibrated with reference to thermal DKD-Standards. Because all measuring boards are made of K-Type thermocouples of the highest accuracy class (class 1) the maximum deviation is within the range of  $\pm 1,5K$  without any calibration. The deviations are in general for all thermocouples nearly identically, because they are from one manufacturing load. The calibration proves the concrete deviation (resolution 0,1K) for all thermocouples for the Measuring Board at the calibration temperature of 231,9°C. These calibration values are considered within PTP© Software. The deviation/error of calibrated thermocouples amounts to  $\pm 0,2K$ .

#### **DELIVERY AND PAYMENT CONDITIONS**

Prices are stated in: EURO without VAT  
 Terms of delivery: CPT Wertheim  
 Terms of payment: 30 days net, (payment in advance)  
 Offer valid until: 30.06.2019

#### **ORDERING**

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 WEB: [www.gp-ics.com](http://www.gp-ics.com)

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