

Measuring System Wave V5

Specification **PTP®**

Professional **T**emperature **P**rofiler

Measuring Board - WAVE V5

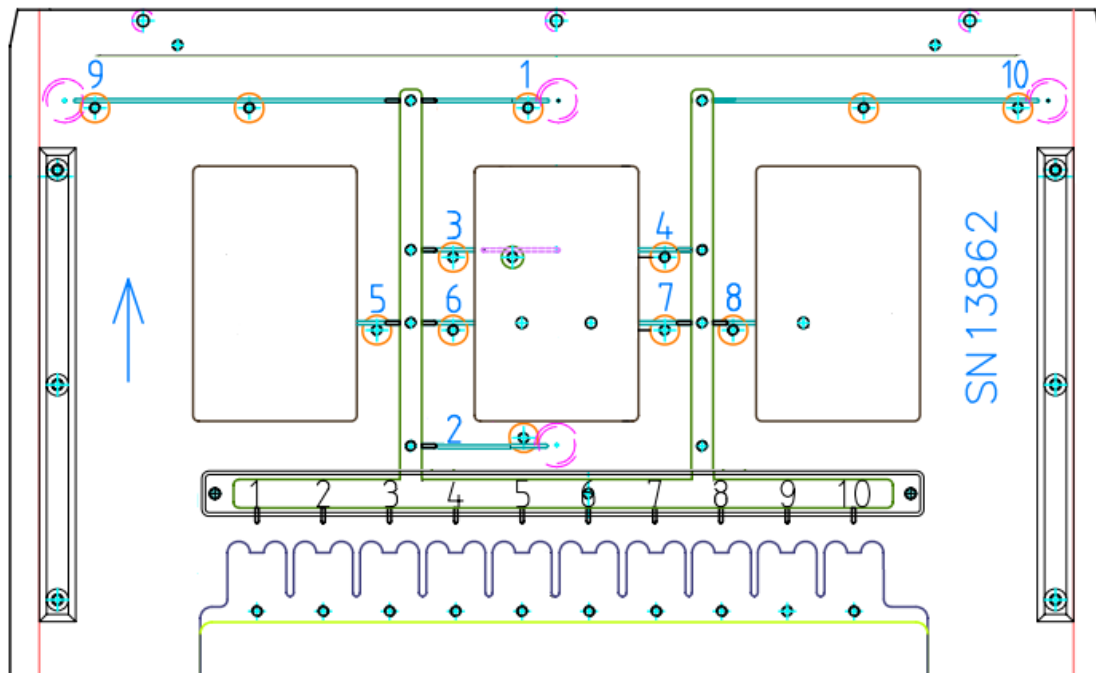
Prepared for taking up both PTP® electronics with real time data transmission via Bluetooth™

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|---|---------------|
| Maximum ambient temperature for 20 s [°C] | 350 |
| Long time ambient temperature [°C] | 280-300 |
| Size (standard board) [WxL] | 300x330 mm |
| Max. height with thermo box / Contact-Screening-Option | <= 37 / 43 mm |
| Tolerance of thermal sensors [°C], K-Type, class 1, IEC 584 | <= +-1.5 |
| After Calibration [°C] (option) | <= +-0.2 |
| Max. Temperature K-type plug connector green [°C] | 220 |
| Max. Temperature K-type thermal cable PTFE isolation [°C] | 260 |

RoHS

The PTP® electronics are produced according to the ROHS (Restriction of the use of certain Hazardous Substances in electrical and electronic equipment) directive

Sketch Measuring Board WAVE V5



Oven Check Up

Only the thermocouples, which are necessary for the specific measurement aim, should be selected at the time. For the basic oven check-up should preferably be used all thermocouples 1 to 8. The measurement of the cross belt profile of a wave soldering plant is done with thermocouples 1, 9 and 10. Always it is recommended to determine the contact time (front edge and in the middle) and soldering bath temperature with sensors 1 and 2. In addition the transportation speed can be checked. Sensor 5 gets the atmospheric temperature, in order to have in the temperature distributions immediately an orientation over the temperature gradients at the different measuring points of the wave soldering plant. Sensors 3 and 4 are for preheating temperature / PCB below and above temperatures. During the measurement with standards 6, 7 and 8 (measuring standards for device simulation) it is additionally meaningful to determine the atmosphere temperature of the soldering plant. In the process of a manufacturing shift the atmosphere temperature as a function of the system workload can vary strongly. These fluctuations can quite affect the results of measurement at the measuring standards. For all measurements (apart from 3, 4 and 6 to 8) it is recommended mostly to switch off the fluxing module. That's the best way to avoid solder sticking on the sheathed thermocouples.

Contents of delivery Wave V5

- Measuring board with integrated modules:
 - 3 x cross profile / parallelism sensors
 - 1 x atmospheric temperature sensor
 - 1 x sensors transportation speed and temperature soldering bath
 - 2 x sensors preheating temperature / PCB below and above
 - 3 x measurement standards, sensors for device simulation
 - 1 x thermo-protection-cover for electronics
- Documentation (Manual and description of Measuring Pallet)
- Thermo-Protection for Electronics
- 8 K-type thermo cables for the connection contact-strip to electronics
- Aluminium-case for transportation (antistatic storage)
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Option: Delivery of customized measuring boards on request!

Trademarks

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