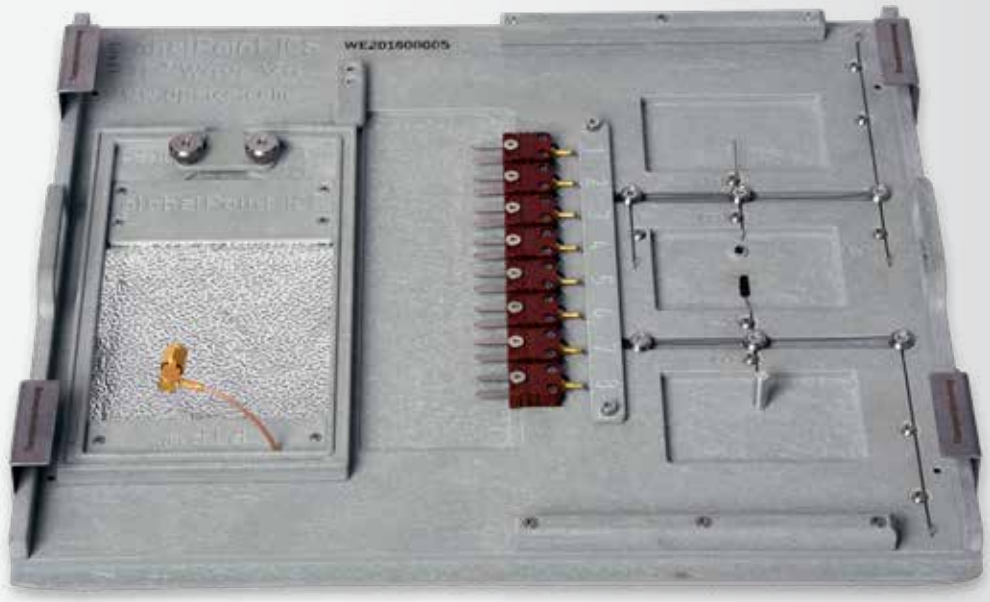
Wave

horus® measuring system for process recording, -analysis and optimization



Measuring board WAVE V6 (OGP-WE001)

Measuring board
WAVE V6

- **Recording of the cross profiles over the entire transport length and width**
- **Measurement of the preheating temperature of the PCB top/bottom**
- **Measurement of the atmospheric temperature**
- **Measurement of dwell times left, centre and right**
- **Measurement of the conveyor speed**
- **Recording of the energy input in a measuring dummy as a basis for evaluating the risk to sensitive components (electrolytic capacitors, plastic parts, ...))**
- **High-temperature antenna onboard**

The **measuring board WAVE V6** and **measuring electronics horus®** make an ideal and versatile instrument for process recording, analysis and optimisation available.

The **measuring board WAVE V6** has eight thermocouples of the highest accuracy class. These are placed permanently stable on specially designed measuring fields. The measuring board is used to check the system parameters and their optimisation in the soldering system.

horus® transmits the measured temperature values in real time using the WIFI transmission standard. No internet connection is required. **horus®** is optimally designed for the soft soldering process of wave soldering. The exclusive use of standard interfaces enables maximum flexibility. A built-in NiMH rechargeable battery ensures at least two hours of continuous operation and requires an average time of 45 minutes to recharge. The integrated battery charge status display and monitoring of the internal electronics temperature ensure maximum safety and uninterrupted operation.

The **horus® software** provides outstanding solutions for parameter calculation, process evaluation, profile comparison and documentation. It also guarantees physically correct profile optimization after just one measurement.

Wave

Technical data & order information

TECHNICAL HIGHLIGHTS

- Intelligent WIFI connection enables data transmission and display in real time
- 8 measuring channels with 24 bit resolution
- Measuring interval 100 ms; measuring time up to 5 x 35 min
- Internal temperature control and triple integrated thermal protection
- Electronics: RoHS-compliant with standard USB-C interface and miniature thermal connector
- Freely editable protocols with profile, gradient and module diagrams
- Automatic profile evaluation
- Free software updates
- High-precision interpolating 7-point calibration
- Modern power management with NiMH rechargable battery and charge state display via radio signal as well as internal temperature display

TEMPERATURE MEASUREMENT

Measuring range	0 °C to 795 °C
Measuring accuracy	±0,5 °C
Resolution	0.1 °C
Measuring interval	0.1 s
Measuring range	8 channels for Ni/CrN

DIMENSIONS HORUS® ELECTRONIC TRANSMITTER

Length	86 mm
Width	86 mm
Height	23 mm

DIMENSIONS MEASURING BOARD

Length	330 mm
Width	300 mm
Height	14 mm

AMBIENT CONDITIONS MEASURING BOARD

- Ambient temperature (long time) 280 - 300 °C
- Max. ambient temperature for 20 s is 350 °C
- Max. height with Shuttle 25 mm
- Range for measuring in wave soldering systems at least 10 m
- Free field range > 300 m

FURTHER SERVICES

- Customer-specific measuring boards
- Customer-specific software features

ORDER DATA

› **OGP-WE001**

1x measuring board WAVE V6 with 8 thermocouples Ni/CrNi and shuttle hood

› **OGP-ME-V2**

1x horus® electronics + software

1x calibration horus® electronics (incl. certificate with DKD reference)

1x aluminium case with insert for electronics and Shuttle

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