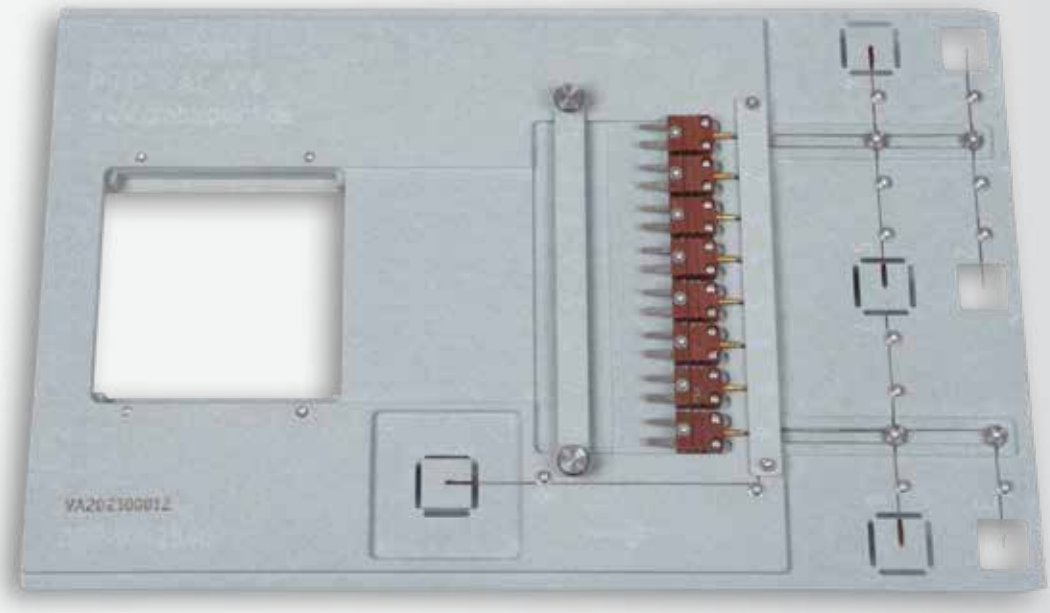
Reflow Vapour Phase/Vacuum

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



Measuring board Vacuum V6 (0GP-VA-2540)

Measuring board VACUUM V6

- **Recording of the cross profile and gradients over the entire transport length and width**
- **Measurement of the thermal zone separation and the atmospheric temperature**
- **Recording of the total energy input of the system as a basis for the evaluation of the process capability of a printed circuit board and comparison of the different soldering systems**

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

The **measuring board VACUUM V6** is equipped with 8 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® VAC transmits the measured temperature values in real time using the WIFI transmission standard. No internet connection is required. **horus® VAC** is optimally designed for the soft soldering processes of vacuum and vaporphase 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.

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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
- Suitable for use in vacuum and vaporphase processes
- Free software updates
- High-precision interpolating 7-point calibration
- Modern power management with NiMH rechargable battery and charge state display via radio signal

TEMPERATURE MEASUREMENT

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

DIMENSIONS HORUS® ELECTRONIC VP TRANSMITTER

Length	100 mm
Width	90 mm
Height	40 mm

DIMENSIONS MEASURING BOARD

0GP-VA-2540	Length	400 mm
	Width	250 mm
	Height	14 mm
0GP-VA-5040	Length	400 mm
	Width	500 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 electronics 43 mm
Guaranteed radio contact even in vacuum systems
Free field range > 300 m

FURTHER SERVICES

Customer-specific measuring boards
Customer-specific software features

ORDER DATA

› **0GP-VA-2540 (250 mm x 400 mm)**
0GP-VA-5040 (500 mm x 400 mm)

1x measuring board VACUUM V6 with 8 thermocouples Ni/CrNi

› **0GP-ME-V2VAC**

1x horus®VAC electronics + software

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

1x aluminium case with insert for electronics and Shuttle

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