OVT

ODTC® Verification Tool

The ODTC® Verification Tool (OVT)

Be sure that your on-deck thermal cycler is performing as it should

ODTC® verification tool (OVT)

Product description

The ODTC® Verification Tool (OVT) is specifically designed to test and verify the performance of the INHECO On Deck Thermal Cycler (ODTC®). It offers an easy and quick solution to confirm the performance quality of the ODTC®. Due to its flat and compact size, the measuring head can operate while the ODTC® lid is closed. Mount and lid temperatures are measured simultaneously.

As the ODTC® runs a predefined temperature cycle, the OVT checks heating and cooling rates and automatically calculates the precision, accuracy and uniformity of the mount and lid temperatures. Test results are displayed via the OVT software and a printable verification certificate, which can be supplemented with individual information such as project, inventory number or other customer data. No other system on the market provides an easier or more accurate way of verifying your ODTC®.

Use the OVT for Instrument Qualification (IQ), during Operational Qualification (OQ) and for regular checks to ensure the best performance of your equipment. The guided setup and the automated test routine makes it the ideal tool for service personnel as well as for end-users.

ODTC® with OVT

System solution – perfectly matching verification tool for the ODTC®

- Verify the performance all-in-one – heating & cooling rates, precision and accuracy in the mount and lid as well as uniformity during the plateau phase
- Reliability due to perfect fit: The ODTC® lid is closed and the OVT cable gap plugged during the verification process, ensuring identical conditions during ODTC® performance verification compared to normal PCR runs
- All 4 corner wells are measured, as well as the center well (see drawing, respective well position number shown)
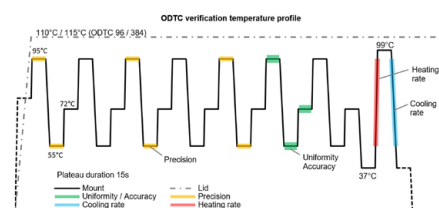

OVT Data logger

Easy to use software

- Step-by-step guidance through system setup
- Automated test routine and procedure. Results displayed in the verification document
- Add your individual information to generate your verification document in audit quality

Ideal for service personnel and end-users

- Use it during Installation Qualification (IQ), Operational Qualification (OQ) and regular maintenance
- Check your ODTC® performance before you process your precious samples, before you run your assay or on a daily basis

ODTC® verification temperature profile

Main specifications

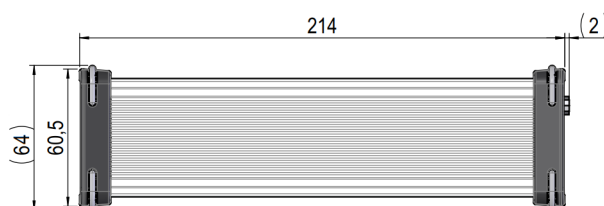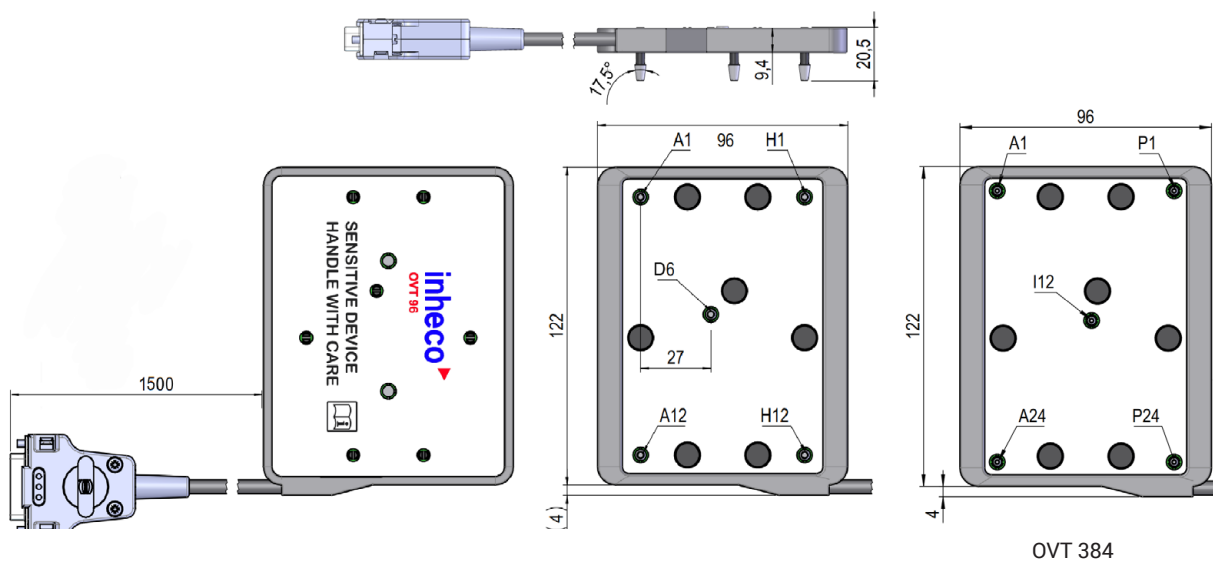| Specifications	7902000 (OVT96), 7902001 (OVT384)
Temperature Range	Mount: 1 °C to 99 °C Lid: 30 °C to 120 °C
Temperature Accuracy	Mount: ±0.15 K @ 55 °C & 95 °C Lid: ±0.2 K @ 100 °C & 115 °C
Temperature Uniformity	Mount: ±0.2 K @ 55 °C & 95 °C
OVT Measurement Head	
Dimensions (WxDxH)	96 mm x 126 mm x 9.4 mm (with sensor pins 20.5 mm – 96, 14.7 mm – 384)
Weight	100 g
Protection class	IP20 (not protected against water)
Products	OVT96 & OVT384
Number of sensors	Mount verification 5, lid verification 2
OVT Data Logger	
Dimensions (WxDxH)	116 mm x 216 mm x 64 mm
Interface to PC	USB 2.0 compatible
Weight	700 g
Protection class	IP30
DC input	5 V (via USB)

ODTC®/OVT during Measurement

OVT Measurement Plate

Drawings OVT data logger

Drawings OVT96 measurement plate

OVT 384