

- ✓ 55 liter Oil Capacity
- ✓ Temperature stability $\pm 0.002^{\circ}\text{C}$
- ✓ Non Homogeneity $\pm 0.005^{\circ}\text{C}$
- ✓ Manual or automatic settings
- ✓ Interface bus GPIB



OCM 301 is a high precision temperature controlled oil bath - thermostat. It is mainly designed for primary metrology calibration purposes for electric standards such as resistors, RTDs, thermocouples or any other devices, which have to be kept at a predetermined exact temperature value.

The bath of 55 liters contains cooling and heating elements which are controlled by very accurate build-in regulators, powered from the mains.

The local programming via the keyboard and the LCD Display and a remote control via a GPIB data bus are standard. Two models OCM 301A and OCM 301B with different cooling capacities are available.

The bath temperature can be set from -5°C up to $+55^{\circ}\text{C}$ (OCM301A with one cooling element) and -8°C up to $+55^{\circ}\text{C}$ (OCM301B with two cooling elements) against the ambient temperature.

Four modes of the temperature control can be selected:

OFF Temperature controller is switched OFF.

TERM Temperature controller is switched ON.

STBY Standby mode with the bath control of $\pm 2^{\circ}\text{C}$.

DAY Exact temperature bath control of $\pm 0.002^{\circ}\text{C}$.

SPECIFICATIONS

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|----------------------------------|---|
| Ambient temperature: | 20 to 28°C |
| Temperature range: | $T_{\text{amb}} - 5$ to $+55^{\circ}\text{C}$ (OCM 301A) $T_{\text{amb}} - 8$ to $+55^{\circ}\text{C}$ (OCM 301B) |
| Cooling capacity: | for 1°C difference between the oil and the ambient temperature: $1,5^{\circ}\text{C}/\text{hour}$ (OCM 301A), $3^{\circ}\text{C}/\text{hour}$ (OCM 301B) |
| Non-homogeneity: | $\pm 0,005^{\circ}\text{C}$ max. |
| Temperature stability: | $\pm 0,002^{\circ}\text{C}/5$ hours |
| Inside space dimensions: | 440 x 325 x 250 mm |
| Overall dimensions: | 1145 x 500 x 370mm |
| Power input of heating element: | 350 VA |
| Power input of cooling elements: | 150 VA (OCM301A) 300 VA (OCM301B) |
| Supply: | 230V / 50 - 60 Hz |