

- ✓ **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

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