



Characteristic features

- ▶ Dual display for Oxygen and Temperature
- ▶ Wide range of application
- ▶ Min/Max alarm with alarm generator
- ▶ Atmospheric pressure and temperature compensation
- ▶ Simple calibration in atmospheric air
- ▶ Serial PC-interface
- ▶ Min/Max value memory, Hold-function

Typical areas of application

- ▶ Oxygen monitoring in incubators
- ▶ Air quality monitoring
- ▶ Climate and ventilation technology
- ▶ Medicine and food technology
- ▶ Biochemistry
- ▶ Safety systems
- ▶ Sports

Features

The HM691 is a professional atmospheric oxygen-measuring instrument for external sensors with a very wide variety of application spectrum in home, work and sport. As per the type of sensor, it measures oxygen concentration and oxygen partial pressure and is frequently used for oxygen monitoring e.g. in incubators for growing cell cultures. The large, double line display with 4 display positions simultaneously shows the current oxygen level and temperature.

The Oxymeter is provided with all the important functions like min/max value memory, min/max alarm with integrated alarm generator, Hold function, PC-interface, atmospheric pressure and temperature compensation, as well as automatic switch off for battery conservation. Another speciality is the simple calibration method of the instrument in ambient air. For this purpose, a 1-point and 2-point calibration procedure is available at your disposal.

The battery voltage is internally monitored and in case of exhausted battery, the message "U bat" appears on the display. The device can also be operated by an external power supply unit, connected through the DC-connection socket.

The device has one 3.5 mm latch socket, in which a serial interface can be inserted. For operation with a PC, an RS 232 or USB-port converter is required.

The scope of supply of the instrument is without sensor, this is to be ordered along separately. Please see the offer of matching atmospheric oxygen sensors and accessories in separate data sheet.

For further information, please visit our website:

www.hygroSENS.com



Technical data

HM691	
Measuring range	O ₂ -concentration: 0.0 ... 100.0% O ₂ (gaseous) O ₂ -Partial pressure:: 0 ... 1100 hPa O ₂ Temperature: -5,0 ... +50,0 °C
Accuracy (at 25 °C)	Oxygen: ±0,1% ±1 Digit Temperature: ±0,1 °C ±1 Digit Partial pressure: ±1 hPa ±1 digit
Oxygen electrode	See list of accessories
Sensor connection	6-pin Mini-DIN-socket
Application temperature	0 ... +50 °C (without dew formation)
Display	Double line LCD with 4 display positions, character height 12.4 / 7 mm
Control panel	6 soft touch keys
Output	3-pin latch socket Ø 3.5 mm for serial interface
Power supply	9 V Block battery 6F22 or external power pack
Housing	142 x 71 x 26 mm (H x B x D), unbreakable ABS
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