

# In-Situ Incubator CO<sub>2</sub> Sensor

## INCUBATOR IR CO<sub>2</sub> SENSOR

MH-100

The MH-100 Incubator IR CO<sub>2</sub> Sensor is designed specifically to monitor and detect carbon dioxide levels in cell incubators to manage ideal cell and tissue growth.

## FEATURES

- IR Dual Beam Sensing Technology
- High accuracy, temperature and pressure compensation
- Heat-sterilization, up to 190°C
- Long sensor module lifetime
- Humidity correction
- Easily integrated into cell incubators
- Automatic power-off at 85°C (185°F)

## SPECIFICATIONS

- **Measurement Range:** 0-20 Vol %
- **Gas Supply:** Diffusion
- **Heat Sterilizable:** at 190°C (375°F)
- **Warm-up Time:** <1 minute (start up)  
<15 minutes (full spec)
- **Accuracy:** ±0, 2 Vol. -% ± 2 % of reading
- **Sensor Response Time:** <30s
- **Digital Resolution:** 0,0001 Vol. -%
- **Temperature Dependence:** ≤ ± 0,1 Vol.-%
- **Long-term Stability:** ≤ ± 0,2 Vol.-% at 5 Vol.-% / year
- **Humidity Correction:** 0 ... 200 hPa H<sub>2</sub>O

## ELECTRICAL

- **Supply Voltage:** 12-24 VDC
- **Power Consumption:** <2W
- **Digital Output:** RS232, Micro-Hybrid industrial protocol
- **Analogue output:** 4-20 mA

## INDUSTRIES



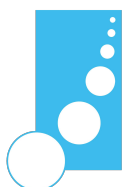
Medical (incubation)



Scientific



Laboratory



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