

INCUBATOR IR CO₂ SENSOR

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The MH-180-HS Incubator IR CO₂ Sensor is designed specifically to monitor and detect carbon dioxide levels in cell incubators to manage ideal cell and tissue growth

The MH-100 can be placed directly in the incubation chamber to measure the exact cell experienced environment. It determines the Carbon Dioxide (CO₂) concentration based on its IR radiation.

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)

Applications



Medical



Scientific



Incubation

TECHNICAL DATA

Incubator IR CO₂ Sensor

| | |
|---|--|
| CO₂ Measurement Range | 0-20 Vol. % |
| Measurement | Electrochemical |
| Gas Supply | Diffusion |
| Heat Sterilizable at | 190°C (375°F) |
| Automatic Power Off at | 85°C (185°F) |
| Warm up time | < 1 minute (start-up) < 15 minutes (full spec) |
| CO₂ Accuracy | ±0, 2 Vol. -% ± 2 % of reading |
| Response time | < 30s |
| Digital resolution | 0,0001 Vol. -% |
| Temperature dependence | ≤ ± 0,1 Vol.-% |
| Pressure dependence | ≤ ± 0,05 Vol.-% |
| Long term stability | ≤ ± 0,2 Vol.-% at 5 Vol.-% / year |
| Humidity correction | 0 ... 200 hPa H ₂ O |



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