



DG112

## Digital CO<sub>2</sub>/O<sub>2</sub> probe

The challenge of measuring gas concentrations within incubators is indeed complex, particularly due to the potential for disturbance to the incubator's environment caused by gas aspiration. The precision of gas measurement is crucial in applications such as cell culture, where maintaining an environment that closely mimics in vivo conditions is essential for cell growth and reproduction.

### Functions & Technology

#### CO<sub>2</sub>/O<sub>2</sub> probe

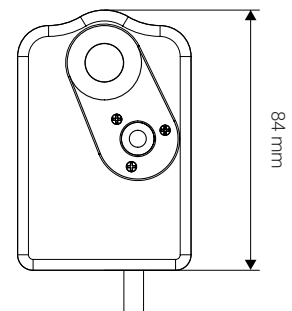
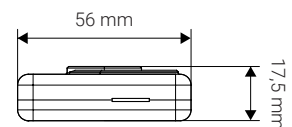
The Digital Carbon Dioxide (CO<sub>2</sub>) and Oxygen (O<sub>2</sub>) probe represents a significant advancement in incubator control technology. Its innovative flat design make it an ideal choice for a variety of laboratory settings, including desktop incubators.

This probe enables continuous monitoring of CO<sub>2</sub> and O<sub>2</sub> levels, which is crucial for maintaining the optimal environment for cell cultures and other sensitive biological samples.



### Specifications

|  |   |
|--|---|
| <b>Sensors</b>                             | NDIR (CO <sub>2</sub> ), Electro-chemical (O <sub>2</sub> )   |
| <b>Measure range</b>                       | 0 - 30% O <sub>2</sub> /0 - 12% CO <sub>2</sub>   |
| <b>Accuracy</b>                            | 0,2% O <sub>2</sub> , 0,1% CO <sub>2</sub> ± 3% of reading  |
| <b>T90</b>                                 | < 20 sec. (O <sub>2</sub> ), < 15 sec. (CO <sub>2</sub> )   |
| <b>Compensation for ambient conditions</b> | Temperature (20 - 40 °C), altitude (700 - 1100 mbar)  |
| <b>Display resolution and update</b>       | 0,1%, one update per sec.   |
| <b>Cable length</b>                        | 2 m   |
| <b>Compliances</b>                         | CE with NiloChecker 500. RoHs.  |
| <b>Calibration</b>                         | Delivered with factory calibration certificate..<br>Can be calibrated in accordance with ISO/IEC 17025. 0 - 50 °C,<br>Calibration requires adaptor. Part no: 115s001. |
| <b>Operating conditions</b>                | 5 - 95% RH (Non condensing)   |



#### Ordering info

**Part no: 112s003** - DG112 VFC (Very flat cable for desktop incubators)  
Delivered with Factory calibration certificate.  
**Part no: 800s004** - Calibration of Nilotech gasprobe incl. factory and gas certificates