

Accessories



Hand Carry Case



Moisture Filter Kit



Spare Filter



Temperature Sensor



Data Management Software

Booking Guide

Cat. No.	Measurement range
T100-01	0-20% CO ₂
T100-02	0-20% CO ₂ + 0-100% O ₂

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ACCURATE INCUBATOR CO₂ CONCENTRATION
VERIFICATION TOOL

T100

INCUBATOR CO₂ ANALYZER

T100 Incubator CO₂ Analyzer is specifically designed to monitor the concentration of CO₂ gas in CO₂ incubators. T100 incorporates the latest technology and standard requirements to provide cell culture users with a great experience of ease of use, fast detection and accurate readings, making it a must-have experimental test gauge for cell biology labs.



Product Features

Function

- CO₂: 0-20%
- Optional functions:
 - O₂: 0-100%
 - Up to two temperature sensors 0-50°C
 - Data storage and download
 - Humidity sensor 0-100%

Features

- Improved accuracy of CO₂ readings
- Designed for fast measurements in CO₂ incubators
- Time saving and accurate temperature sensor (optional)
- Dedicated software support for data storage and download (optional)
- Large, easy-to-read LCD display and easy-to-touch buttons
- Good pre-treatment of dehumidification and water filtration



Technical Parameters

Power supply		Parameter Measurement	
Battery type	Rechargeable lithium battery	Measuring principle	CO ₂ by customized dual wavelength non-spectral infrared principle
Standby time	12 hours (8 hours with pump)		O ₂ by built-in electrochemical detection unit
Battery lifespan	Charge and discharge 600 times	CO ₂ unit lifespan	5+ years (in air)
Battery charger	5V DC external power supply	O ₂ unit lifespan	3+ years (in air)
Charging time	4 hours	Measurement range	CO ₂ : 0-20% O ₂ : 0-100%
Optional accessories		Measurement accuracy	CO ₂ measurement accuracy: ±1%FS (range) O ₂ measurement accuracy: ±1%FS (range)
Temperature measurement (optional)	0-50°C (up to 2 optional temperature sensors)	Reaction time	CO ₂ ≤ 20 seconds; O ₂ ≤ 60 seconds
Temperature Accuracy	±0.2°C (32-44°C), other ±0.5°C	Others	
Humidity measurement (optional)	0-100%RH	Weight	495g
Temperature accuracy	±1.5%RH	Dimension	165×100×155mm
Alarm	Sound and light alarm function for over concentration	Case Material	ABS
Communication	USB interface, optional data management software	Display	LCD, 128×64 pixels
Data storage	1000 records of readings (local storage)	Sample gas filtration	Embedded drying tube at the back to remove moisture, replaceable PTFE filter
Download function	+270 event records (optional data software)	Expandable Applications	
Environmental conditions		Laboratory CO ₂ monitoring, Scientific research, In vitro fertilization, Medical	
Operating temperature	0-50°C		
Relative Humidity	0-95%RH		
Atmospheric pressure	Calibration pressure ±500mbar		
Protection class	IP40		
Conditions at factory calibration	20°C, 1000mBar		

Operation Guidance



- 1 Press the on/off button to turn on
- 2 Charge the analyser when the battery is low
- 3 Press menu key to set time and date
- 4 CO₂ zero calibration (please refer to the operation manual)

The best way is to use N₂ to calibrate the zero point Or calibrate the zero point with air after connecting the sodafilter cartridge or in an air-ventilated aret
- 5 Connect the filter and sampling tube at the air inlet
- 6 Press the air pump button to draw sample gas
- 7 Keep pumping and observe the result
- 8 Press the air pump button to pump air to clean the chamber
- 9 Take the next measurement
- 10 Turn off the analyzer