

**Tenmars TM-187A  
1.8 inches LED CO<sub>2</sub> / Temperature  
Humidity Monitor Data Logger**



SKU: TENTM187ABK  
Manufacture warranty period: 12 months  
Country of Origin: Taiwan

### Product Description

- Complete environmental monitoring and alarm solution
- Wall-Mounted LED type for easy reading
- Alarm set for CO<sub>2</sub> and Temperature and Humidity
- USB Datalogging Capacity 65,000 records
- Real-time data display

### Applications

This monitor can be mounted on a wall or sat upon a desk, and has a unique, large LED display that makes it easy to see the readings, it's ideal for CO<sub>2</sub>, temperature and humidity monitoring, and control in labs and other areas:

- Hospitals blood/Tissue banks.
- Warehouses.
- Laboratories.
- Computer rooms.
- Chambers / Incubator.
- Clean rooms.
- Green house
- Electronics manufacturing.
- Defence
- Refrigerators/Freezers.
- Other Critical areas.

## Specifications

- Sampling time: 1 time/second
- Interval time: 1s~24hrs
- **Output interface: RS485/RS-232/USB With a time of three options**
- **Analog output: 4-20mA Output ( $R_L \leq 250\Omega$ )**
- **Dry contact (Relay Switch): Contact: Max. 1A@30Vdc Resistive load**
- Operating Temperature:  $-20^\circ\text{C} \sim 70^\circ\text{C}$
- Storage Temperature:  $-10$  to  $60^\circ\text{C}$
- **USB Datalogging Capacity 65,000 records.**
- Power: 24Vac/Vdc $\pm 20\%$  (50...60Hz) and 9-15V Adaptor
- Power consumption: 6W@24Vdc

### Carbon Dioxide (CO<sub>2</sub>):

- CO<sub>2</sub> Sensor: Non-dispersive infrared (NDIR)
- Range: 1 to 9999ppm
- Accuracy:  $\pm 5\%$  of reading or  $\pm 70\text{ppm}$  (0-2000ppm, others out of scale range)
- Resolution:  $\pm 1\text{ppm}$
- Response Time: Typ.2 minutes by 90%

### Temperature:

- Sensor type: Diode
- Range:  $-20^\circ\text{C} \sim 70^\circ\text{C} / -4^\circ\text{F} \sim 158^\circ\text{F}$
- Accuracy:  $\pm 1.0^\circ\text{C}$  ( $5 \sim 60^\circ\text{C}$ ) other  $\pm 2^\circ\text{C}$
- Resolution:  $0.1^\circ\text{C} / 0.1^\circ\text{F}$  ( $0 \sim 35^\circ\text{C} / 32^\circ\text{F} \sim 95^\circ\text{F}$ );  $1^\circ\text{C} / 1^\circ\text{F}$  (over  $100^\circ\text{C} / ^\circ\text{F}$  or below  $-10^\circ\text{C} / ^\circ\text{F}$ )
- Response Time: Typ.1 second

### Relative Humidity:

- Sensor type: Capacitor
- Range: 5-95%
- Accuracy:  $\pm 5.0\%\text{RH}$  ( $20 \sim 80\%$ );  $\pm 8.0\%\text{RH}$  ( $< 20\%, > 80\%$ )
- Resolution: 0.1%
- Response Time: Typ.4 seconds

## Standards Certification:

- CE

## Package included:

- TM-187A LED Monitor
- User's manual
- CD Software
- AC to DC Adapter
- 9V battery

## Package Dimension:

- Size: 38 x 23 x 13 cm
- Weight: 1.8 KG

Installation figure (Electrical connections)

