



# INFORMATION & SPECIFICATIONS DATA SHEET

TEMPERATURE & PROCESS INSTRUMENTS INC

## AQ-100S Carbon Dioxide and Ambient Temperature Hand Held Meter

The New advanced AQ-100S carbon dioxide (CO<sub>2</sub>) and ambient temperature meter is portable, highly accurate, durable, compact and user-friendly a hand held instruments designed to meet the needs of testing professionals in ANY Air Quality applications. **Ideal for Inspectors, Laboratories, HVAC, IAQ, Greenhouse, Offices, Commercial, Residential, and many more where carbon dioxide build up can cause environmental hazardous and safety concerns.**

### Features

- CO<sub>2</sub> measurement 0 to 5000 ppm
- Measure Ambient Temperature 0 to 176°F (-18 to 80°C)
- Minimum and Maximum Values
- HOLD function
- Adjustable automatic shut-off
- IP54 Housing

### Operating Principle

The AQ-100S uses a Non Dispersive Infrared Absorbance (NDIR) gas absorbs light at a specific wavelength, some of the intensity emitted by the infrared source is absorbed by the gas sample. The amount of light read by the IR sensor is inversely proportional to CO<sub>2</sub> concentration.

### Specifications

**CO<sub>2</sub> Measuring Range:** 0 to 5000 ppm  
**Accuracy:** ±3 % of reading ±50 ppm\*\*  
**Resolution:** 1 ppm  
**Temperature Range Range:** 0 to 176°F (-18 to 80°C)  
**Accuracy:** ±0.4% of reading ±0.3°F  
**Resolution:** 0.1°F/C  
**CO<sub>2</sub> Sensor:** Infrared sensor (Non dispersive - infrared sensor NDIR)  
**Temperature Sensor:** Pt100 class A  
**Display:** 2 lines, LCD technology. Sizes 50 x 34.9 mm, 1 line of 5 digits with 7 segments (value), 1 line of 5 digits with 16 segments (unit)  
**Housing:** Shock-proof ABS, IP54 protection

**Keypad:** Metal-coated with 5 keys  
**Cable:** Retractable, length 18" (450 mm), up to 8' (2.4 m) when released  
**Conformity:** Electromagnetical compatibility (NF EN 61326-1 guideline)  
**Power Supply:** 1 alkaline battery 9V 6LR61 included  
**Operating Temperature:** 0 to 122°F (-18 to 50°C)  
**Storage Temperature:** 0 to 176°F (-18 to 80°C)  
**Auto Shut-off:** 0 to 120 min. programmable  
**Weight:** 6.7 oz  
**Languages:** English, French  
**Probe Length:** 12"

\*\*the accuracy is expressed either by a deviation in ppm, or by a percentage of the value concerned. Only the bigger value is considered.



### Order Information

Part Number	Description	Price
AQ100S	AQ-100S carbon dioxide and ambient temperature meter	\$619.00

Each Unit Includes: Integral 12" long probe, Carrying Case, 9 V battery, and instruction manual

\* Price Subject to change without notice, please visit our web site for the latest pricing and specifications

Temperature & Process Instruments Inc.

Visit us on the web at [www.tnp-instruments.com](http://www.tnp-instruments.com)

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