



NIEUWKOOP

LEAFLET



GT1050

CO₂/TEMP METER



TO MEASURE  TO KNOW



PRODUCT DESCRIPTION

Model GT1050 is a low cost flexible and easy to use hand-held, instrument designed to measure the carbon dioxide concentration and temperature in surrounding air.

The large illuminated display presents the 2 values simultaneously.

Audible alarm is included. Max/Min Average as well as TWA and STEL measurements are also available.

The carbon dioxide sensor's gold-plated infra-red waveguide and diffusion membrane filter provides you great reliability, accuracy and long-term stability

FEATURES

- State-of-the-art non-dispersive infrared
- (NDIR) technology to measure carbon
- dioxide gas in parts-per-million (ppm)
- Data output RS232
- Displays the current carbon dioxide and temperature on a large LCD
- Displays TWA (8hours) STEL (15 minutes) Min, Max and average values
- Internal automatic self-diagnostic function
- Audible alarm
- Easy to calibrate

APPLICATIONS

With a battery capacity covering more than 24 hours, the instrument works perfectly for diagnosing ventilation using carbon dioxide as the surrogate ventilation index.

The instrument works perfect for measuring the indoor air quality parameters CO₂. Temp and Carbon dioxide has been acknowledged as a good indicator that adequate "fresh" outside air is being supplied to the occupants for acceptable indoor air quality. Adequate ventilation reduces temporary sickness, downtime and lost productivity.

The GT1050 is also ideal for measuring carbon dioxide concentration in incubators, greenhouses, mushroom farms, etc., where correct levels are essential for the process outcome.

**GT1050 Technical specification*****Measurement**

Operating Principle	: Non-dispersive infrared (NDIR) with gold plated optical cell
Gas Sampling Mode	: Diffusion
Response Time (1/e)	: Approx 30 sec
Measurement Range	: 0-5000 ppm
Extended Range	: 5001-9999 ppm
Accuracy	: ±30 ppm ±5% of reading (CO ₂) (0 ~ 2000 ppm) ±0.6°C/±0.9°F, ±3 % RH (at +25°C, 10 ~ 90 %)
Warm up time	: 30 seconds
Response time	: about 30 seconds
Alarm sound level	: 80 dB
Operating condition	: 0° ~ +50°C, 0 ~ 95 % RH (avoid condensation) for CO ₂
Storage condition	: -20° ~ +60°C
Power supply	: AA type (UM-3) x 4 pcs
Battery life	: > 24 hours
Standard packing includes	: Meter, manual, batteries and hard carrying case
Optional accessories	: adaptor 9V/100-240VAC,
Pressure Dependence	: + 1.6 % reading increase per kPa deviation from normal pressure
Calibration	: Manual calibration with fresh air
Resolution	: 2 ppm – CO ₂ concentration, 0.1 °C / °F – Temperature
Numerical Liquid Crystal Display	: Simultaneous display of * CO ₂ concentration (in ppm.) * temperature

Temperature

Temp. range	: 0° C ~ +60 °C
RH range	: 0 % ~ 95 %
DP (Dew Point Temperature)	: -73.4 °C ~ +60 °C
WB (Wet bulb Temperature)	: - 13.3 °C ~ +60 °C
Measurement Range	: 0° – +60°C
Accuracy	: ±0.5° C

Electrical:

External supply	: Plug in transformer
Internal Battery	: 4 pcs AA batteries 24 hours capacity

General Performance:

Compliance with	: EMC Directive 89/336/EEC
Storage Temperature Range	: -20° to +70° C
Operating Temperature Range	: 0° to +50° C
Operating Humidity Range	: 0° to 95 % RH (non-condensing)
Size	: 209.4x70x57.7(mm)
Weight	: about 180g (battery excluded)
Sensor Life Expectancy	: > 15 years
Power-up Time	: < 30 sec. (full specs < 15 minutes)
Housing Material	: ABS/PC blend

* Can be changed without notice PATENDED



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