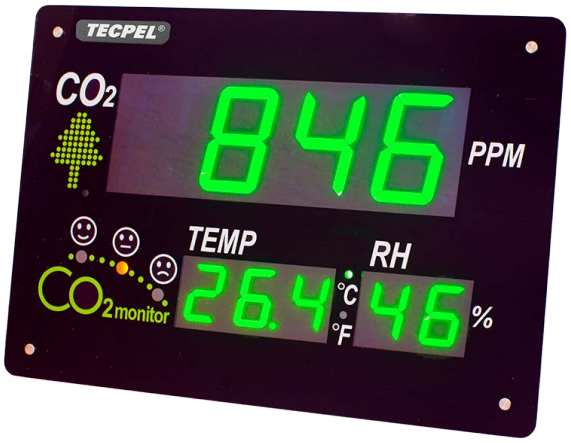
TECPEL®

ENVIRONMENTAL MEASUREMENT

TRH-3351

Temperature, Humidity and Carbon Dioxide Display Board



Clear indoor air-quality information at a glance

The TRH-3351 continuously measures carbon dioxide concentration, ambient temperature and relative humidity. Its large luminous LED display and three-color air-quality indicator make readings easy to identify across offices, factories, schools, department stores, libraries, conference centers, hospitals and care facilities.

Key Features

NDIR sensing
Dual-beam non-dispersive infrared technology supports stable long-term CO2 monitoring.

Large LED display
Bright green numerals provide clear CO2, temperature and humidity readings.

Three-color indication
At-a-glance air-quality status helps users respond quickly to changing CO2 levels.

Three measurements
CO2 concentration, ambient temperature and relative humidity in one display board.

Typical Applications

OFFICES	SCHOOLS	FACTORIES	HEALTHCARE

Designed for continuous indoor monitoring wherever clear, shared visibility of CO2, temperature and humidity is important.

Technical Specifications

PARAMETER	SPECIFICATION
CO2 measurement range	0 to 3,000 ppm
CO2 resolution	1 ppm (0 to 1,000 ppm) 5 ppm (1,000 to 2,000 ppm) 10 ppm (2,000 to 3,000 ppm)
CO2 accuracy	±5% of reading or ±70 ppm (within 2,000 ppm); otherwise ±7%
CO2 repeatability	±20 ppm
Temperature range	0 to 40°C (32 to 104°F)
Temperature accuracy	±1°C (±2°F)
Temperature resolution	0.1°C (0.1°F)
Temperature units	°C / °F
Humidity range	20 to 90% RH
Humidity resolution	1% RH
Humidity accuracy	±5% RH at 23°C
Humidity response time	Less than 5 minutes (63% change)
Power-on display time	Approximately 15 seconds
CO2 response time	Approximately 2 minutes (63% change)
Warm-up time	Less than 60 seconds at 22°C

General Information

Operating environment	0 to 40°C (32 to 104°F), below 95% RH, non-condensing
Storage environment	-20 to 60°C (-4 to 140°F), below 95% RH, non-condensing
Sensor	NDIR (non-dispersive infrared)
Power supply	AC 100 to 240 V, 50/60 Hz, approximately 7 W
Dimensions	H 30 x L 21 x D 4 cm
Weight	Approximately 1,400 g
Standard accessories	User manual and power adapter

Specifications are subject to change without notice.