ALNOR Indoor Air Quality Instruments

Models CF920 and CF930 CompuFlow® IAQ

These Indoor Air Quality meters are the ideal tools for investigating indoor air quality and performing thermal comfort studies. They simultaneously measure and data log multiple parameters. The CF920 quickly and accurately measures carbon dioxide (CO_2), temperature, humidity, and calculates dew point, wet bulb temperature and % outside air. The model CF930 adds a measurement of carbon monoxide (CO).

FEATURES AND BENEFITS

- Stable NDIR sensor to monitor CO_2
- Calculates % outside air from CO_2 or temperature
- Displays humidity as %RH, dew point, and wet bulb
- Manual or continuous data logging
- Stores 12,700+ sets of downloadable readings with time and date stamp
- Includes LogDat2™ software and interface cable to download to a PC
- Statistics function for average, maximum and minimum values

Applications

- Investigating indoor air quality
- Performing thermal comfort studies
- Checking ventilation systems
- Conducting IAQ evaluations

Model CF910, CO2 meter

The CF910 CO_2 meter is an excellent, cost-effective handheld diagnostic instrument for measuring and monitoring carbon dioxide levels. HVAC professionals use it for conducting IAQ surveys and evaluating ventilation systems in schools, offices, factories and hospitals.

SPECIFICATIONS

CO2

Sensor type	Dual wavelength NDIR (non dispersive infrared)
Range	0 to 5000 ppm
Accuracy[1]	±3% of reading or ±50 ppm, whichever is greater
Resolution	1 ppm
Response time	20 seconds

Temperature (CF920 and CF930)

Range	0 to 60°C (32 to 140°F)
Accuracy	±0.6°C, ±1°F
Resolution	0.1°
Response time	30 seconds (90% of final value, air velocity at 400 ft/min)

Relative Humidity (CF920 and CF930)

Range	5 to 95% HR
Accuracy[2]	±3%
Resolution	0.1%
Response time	20 seconds (for 63% of final value)

% Outside Air (CF930 only)

Range	0.0 to 100.0%

CO (CF930 only)

Sensor type	Electro-chemical
Range	0 to 500 ppm
Accuracy	±3% of reading or ±3 ppm, whichever is greater
Resolution	1 ppm
Response time	Less than 60 seconds to 90% step change

Operating temperatures	5 to 45°C, 40 to 113°F
Storing	-20 to 60°C (-4 to 140°F)

Logging Capability (CF920 and CF930)

Memory	CF920: 30,300 data points with 3 measurement parameters enabled CF930: 26,900 data points with (4) measurement parameters enabled
Time constant	1 sec, 5 sec, 10 sec, 20 sec, 30 sec
Log intervals	1 second to 1 hour
Meter Dimensions	3.3 x 7.0 x 1.8 in (84 x 178 x 44mm)
Probe Dimensions	
CF910	2.75 x 0.75 in (70 x 19 mm)
CF920 and **CF930**	7.0 x 0.75 in (178 x 19 mm)
Weight (with batteries)	
CF910	0.6 lbs (0.27 kg)
CF920 and **CF930**	1.16 lbs (0.53 kg)
Power Requirements	
CF910	Four AA-size batteries
CF920 and **CF930**	Four AA-size batteries or AC adapter

TO ORDER

CF910	Air Quality MeterCO2, hard case, calibration collar, batteries, NIST certificate and manual
CF920	Air Quality MeterCO2, humidity and temperature, hard case, calibration collar, USB cable and LogDat2 software, data logging, batteries, NIST certificate and manual
CF930	Air Quality MeterCO2 and CO, humidity and temperature, hard case, calibration collar, USB cable and LogDat2 software, data logging, batteries, NIST certificate and manual
801761	Universal AC adapter

1 Accuracy to 25°C (77°F): add uncertainty of 0.3%/°C (0.2%/°F) away from calibrated temperature.

2 Accuracy to 25°C (77°F): add uncertainty of 0.05% HR/°C (0.03%HR/°F) away from calibrated temperature.

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