



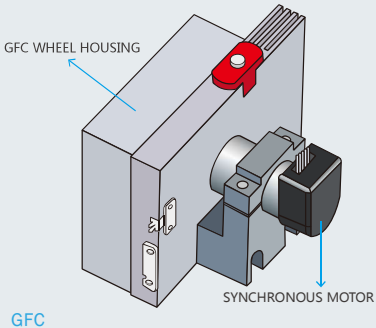
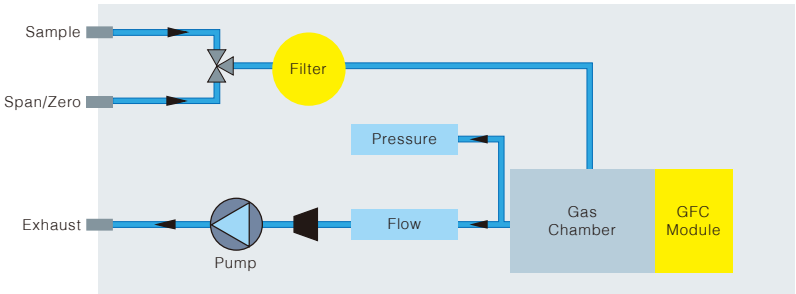
# AQMS-400

## Carbon Monoxide Analyzer

FPI AQMS-400 carbon monoxide (CO) analyzer measures ambient CO concentration by employing nondispersive infrared with gas filter correlation method technology.

### Features

- 14 meters optical path to perform high reliability;
- Five years guarantee on GFC wheel;
- Compliance with US EPA reference method;
- Various outputs include ethernet and RS232;
- User friendly interface with large screen;
- Continuous system diagnosis with alarm;
- Multi-tasking software allows viewing test variables while operating;
- Temperature and pressure compensation;
- Internal data logging with 1 min to 365 day multiple averages;



### Principle

Infrared energy emitted by light source is passed through gas chamber containing the air sample, and the quantitative absorption of energy by CO in the sample cell is measured by corresponding detector.

### Data storage and analysis

Stored data are easily retrievable through the serial or ethernet port via PC client software, allowing operators to perform predictive diagnostics and enhanced data analysis by tracking parameter trends.

### GFC

GFC (Gas filter correlation) technology is utilized to remove interference caused by moisture and other backgrounds.

Two kind of different gas filled chambers are mounted on a rotating disc, which are alternately passed through by an IR beam. The measure chamber is filled with nitrogen while the reference chamber is filled with high concentration CO. The difference in absorbance is measured and provides a direct output of the gas concentration.

Standard Range	USEPA Specification 0-50 ppm
Zero Noise	0.04ppm (RMS)
Span Noise	0.5% F.S
Lower Detectable Limit	0.08ppm
Zero Drift	<0.1ppm/24h
Span Drift	<1%F.S./24h
Linearity	<1%F.S.
Precision	<1%
Response Time	T90<90s
Sample Flow Rate	( 800±80 )sccm
Data Transmission	2 channel analog (4~20) mA; 2 analog (0~5) V; 2 channel analog (4~20) mA; 1 2 digital output; 1 2 digital output; 4-way relay output;
Communication	RS232/RS485/Ethernet
Operating Temperature	USEPA Specification 20~30 °C
Operating Humidity	0~95%RH ( No condensation )
Power Requirement	(220±22)VAC , (50±1)HZ
Dimensions and Weight	178(H) x 432(W) x 604(D)mm , 28kg