

CO-A Carbon Monoxide Analyser

- ▶ A CO Analyser for integrating with Hiden HPR-20 Gas Analysis systems complimenting mass spectrometer data for quantitative analysis of complex gas mixtures.
- ▶ Designed for gas analysis applications of syngas, biogas and catalysis studies where levels of CO are analysed by the CO-A in the presence of nitrogen, carbon dioxide, methane and other gas mixtures.
- ▶ Gas sampling and data collection from the CO-A are fully integrated with the mass spectrometer system in hardware and software.
- ▶ A non-condensing gas sampling flow rate of ~ 800 ml/min is recommended for a response time of ~ 60 seconds.
- ▶ The CO-A is available with two concentration measurement range options: 0 – 2%, and 0 – 10%.



*Standalone CO Analysers with measurement ranges: 0.04 – 1,000 ppm and 0 -10,000 ppm are also available, with data acquisition integrated to the Hiden mass spectrometers.



Description

- ▶ CO-A: A Carbon Monoxide (CO) analyser module with detection range options of 0 - 2% and 0 - 10%, limit of detection = 2% of full scale.
- ▶ Acquisition signal fully integrated into mass spectrometer software for quantitative analysis of CO in Nitrogen for example.

Dimensions

- ▶ 128.5 mm high (3U), 213 mm wide (42HP), 397.6 mm long, rack mountable

Measurement ranges

- ▶ 0 - 10%
- ▶ 0 - 2%

Response time

- ▶ 60 secs to 95% response at 800 ml/min - non-condensing

Detection limit

- ▶ 2% full scale

Accuracy

- ▶ +/- 2% FS

Repeatability

- ▶ < 0.3% Rd

Reproducibility

- ▶ < 1.1% Rd over 5 days

Gas connection

- ▶ 1/8" Swagelok