

## Carbon Monoxide (CO), Carbon Dioxide (CO<sub>2</sub>) and Water (H<sub>2</sub>O) Analyzer

### **Shall have the minimum specifications:**

- Simultaneous measurements of CO, CO<sub>2</sub> and H<sub>2</sub>O
- Uses off-axis Integrated Cavity Output Spectroscopy (ICOS) technology, a fourth-generation cavity enhanced absorption technique, which employs a high-finesse optical cavity as the measurement cell
- CO and CO<sub>2</sub> automatically reported on dry mol fraction basis
- Unaffected by changing H<sub>2</sub>O in ambient air
- Data Rate:
  - 0.01-10 Hz (User Selectable)
- Precision (1 $\sigma$ , 10 seconds):
  - CO: 0.5 ppb
  - CO<sub>2</sub>: 0.1 ppm
  - H<sub>2</sub>O: 30 ppm
- Measurement Rates:
  - All parameters measured simultaneously at user-selectable rates up to 10 Hz
- Measurement Range (Shall meet all specs):
  - CO: 50 – 30000 ppb
  - CO<sub>2</sub>: 5 – 5000 ppm
  - H<sub>2</sub>O: 4000 ppm to 100% RH (non condensing)
- Operational Range:
  - CO: 0 – 40 ppm
  - CO<sub>2</sub>: 0 – 10000 ppm
  - H<sub>2</sub>O: 0 to 100% RH (non condensing)
- Outputs:
  - digital (RS-232), analog, Ethernet, USB
- Power Requirements:
  - 115/230 VAC, 50/60 Hz
  - 180 watts or less
- Dimensions:
  - Standard Rackmount Package: 19" × 30" × 14" or smaller
- Weight:
  - 36 kg or less

### Evaluation Criteria:

**Lowest Price Technically Acceptable:** Selection and award will be made to the lowest priced, technically acceptable quoter. Technical acceptability will be determined from information submitted by the quoter which must provide sufficient details to show that the product quoted meets the Government requirements.