

Introduction The MceL CO is a miniature high quality robust CO sensor, ideal for use in portable and fixed gas detectors.

Key Features: high stability, fast response and recovery, robust environment performance.

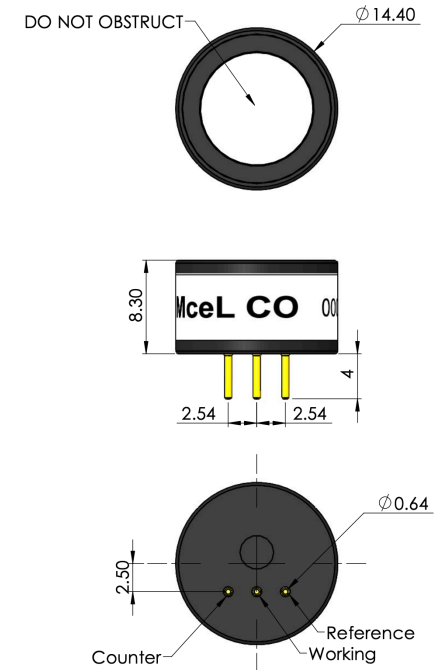
| Performance Characteristics | |
|------------------------------------|-----------------------|
| Output signal | 40 ± 15 nA / ppm |
| Typical Baseline Range (pure air) | ±3 ppm CO equivalent |
| Filter Capacity | > 20000 ppm hours |
| T90 Response Time | < 30 seconds |
| Measurement Range | 0 - 1000 ppm |
| Maximum Overload | 2000 ppm |
| Linearity | Linear up to 1000 ppm |
| Repeatability | < ±2% CO equivalent |
| Recommended Load Resistor | 10 ohms |
| Resolution (Electronics dependent) | < 0.5 ppm typical |

| Environmental Details | |
|------------------------------|------------------|
| Temperature Range Continuous | -30°C to +50°C |
| Pressure Range | 800 to 1200 mbar |
| Operating Humidity Range | 15% to 90% RH |

Important Note:

All performance data is based on conditions at 20°C, 50%RH and 1 atm, using DD Scientific recommended circuitry.

Sensor performance is temperature dependent, and please contact DD Scientific for temperature performance other than 20°C.



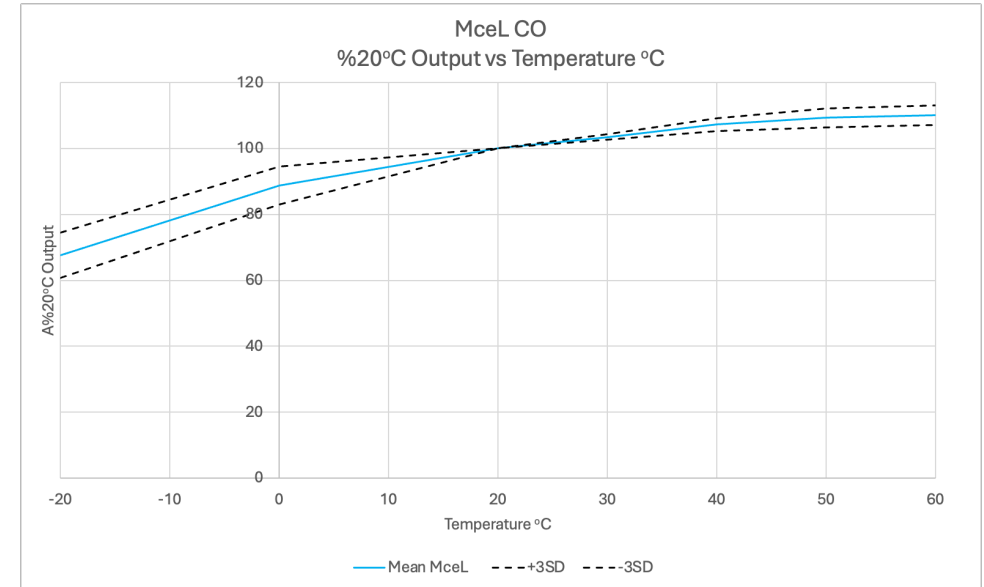
Recommended Socket: Cambion 450-3703-01 03-00

Product Dimensions
All dimensions in mm
All tolerances ±0.15 mm

| Lifetime Details | |
|--------------------------|---------------------------------|
| Long Term Output Drift | < 5% per annum |
| Recommended Storage Temp | 0°C to 20°C |
| Expected Operating Life | > 24 months in air |
| Standard Warranty | 24 months from date of dispatch |

| Cross - Sensitivity Data | | |
|--------------------------|---------|---------|
| GAS | CONC. | MceL CO |
| Hydrogen Sulphide | 25 ppm | 0 ppm |
| Sulphur dioxide | 20 ppm | 0 ppm |
| Hydrogen | 100 ppm | <30 ppm |
| Nitric Oxide | 50 ppm | <15 ppm |
| Ethanol | 200 ppm | <1 ppm |
| Ammonia | 50 ppm | 0 ppm |
| Chlorine | 15 ppm | 0 ppm |

| Intrinsic Safety Data | |
|-----------------------|--------|
| Maximum at 2000 ppm | 0.3 mA |
| Maximum o/c Voltage | 1.3 V |
| Maximum s/c Current | <1.0 A |



Poisoning:

DD Scientific sensors are designed to operate in a wide range of harsh environments and conditions. However, it is important that exposure to high concentrations of solvent vapors is avoided, both during storage, fitting into instrument and operation. When using sensors on printed circuit boards (PCB's), degreasing agents should be used prior to the sensor being fitted.

Please note gluing or soldering direct to the pins of DD Scientific Ltd gas sensors will void warranty, please use PCB sockets when connecting DD Scientific sensors.

WARNING: By the nature of the technology used, any electrochemical gas sensor offered by DD Scientific can potentially fail to meet specification without warning. Although DD Scientific Ltd makes every effort to ensure the reliability of our products of this type, where life safety is a performance requirement of the product, we recommend that all sensors and instruments using these sensors are checked for response to gas before use.

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