



Medical and Biotech  
Developments, Inc.

## *CARBON MONOXIDE MONITOR AND ALARM*



The Model A-316 Carbon Monoxide (CO) Monitor and Alarm is a 115 VAC dust-resistant instrument that can be surface mounted as close as possible to the air supply, but outside a classified hazardous area. It continuously monitors compressed air and gives an alarm when CO in the sample exceeds a preset level, or there is a discontinuity in the detector circuit. It indicates CO concentration in ppm on a digital display, and has a pilot light to verify the instrument is on and operating properly. It has an internal alarm relay and terminals for a 4-20mA signal.

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The Model A-316 is assembled into a powder-coated sheet metal housing. An opening for introducing the pressurized gas is located at the right hand side of the flow block at the bottom of the housing. Visible through the window in the front face are the LCD display, pilot and alarm lights. The 3-wire power cord plugs into an RF-filtered socket on the upper right side, and the alarm buzzer extends through the top. An alarm silence switch can be found on the right side of the case, just above the air inlet to the flow block.



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**CASE CONSTRUCTION:** Welded steel with front face window.

**DIMENSIONS:** 4" x 6" x 3.5"

**GAS DETECTED:** CO in compressed air

**DETECTION PRINCIPLE:** 3 electrode electrochemical

**DETECTION RANGE:** 0-200ppm

**SAMPLING METHOD:** Continuous, passive from compressed air line. Sample  
pressure 50-95psig

**DISPLAY SPECS:** LCD, 1ppm increments

**ALARMS:** User adjustable preset, 10ppm standard, SPDT relay, 10A LED, audible buzzer

**OPERATING TEMP:** 30° - 120°F

**OPERATING HUMIDITY:** 0-90% RH

**WEIGHT:** 4.2 lbs.

**POWER SOURCE:** 115 VAC

**CONTROLS & OUTPUTS:** Span, zero, alarm pots, 4-20mA, alarm silence switch

**ALARM TYPES:** High gas, sensor failure

**STANDARD ACCESSORIES:** Power cable

**OPTIONAL ACCESSORIES:** Calibration kit, Remote alarm, Remote strobe

**AVAILABLE AS:** Product or OEM (complete instrument or PCB)

**SENSOR WARRANTY:** 2 years

**CONTINUOUS OPERATION TIME:** Continuous lifetime operation

**RESPONSE TIME:** 10 seconds to 95%

**INSTRUMENT WARRANTY:** 5 years