

Infrared CO₂ Gas Monitor

90DM₃A

With an unparalleled reputation for product innovation, reliability and excellence, Vulcain Inc. is once again setting industry standards with the latest generation Infrared CO₂ Gas Monitor - the 90DM₃A.

The product of the most rigorous research and industrial design, the 90DM₃A, incorporates Vulcain's unique infrared sensing technology and state of the art microprocessor controlled digital transmission into a CO₂ gas monitor, offering a level of precision and efficiency second to none.



- Proven infrared technology
- Specific CO₂ monitoring
- Built-in microprocessor
- Optional relay contact closure (fail safe)
- 4-20mA or 0-5 VDC or 0-10 VDC output
- Temperature compensation
- Trouble-free operation
- No moving parts
- Menu driven easy calibration
- Optional 0-5% detection range

Ordering Information

90DM₃ASM-1	90DM ₃ A Wall Mount Enclosure, 0-2000 ppm
90DM₃ASM-2	90DM ₃ A Wall Mount Enclosure, 0-50000 ppm
90DM₃ADT-1	90DM ₃ A Duct Type Enclosure, 0-2000 ppm
90DM₃ADT-2	90DM ₃ A Duct Type Enclosure, 0-50000 ppm
90DM₃ASMR-1*	90DM ₃ A Network, Wall Mount Enclosure, 0-2000 ppm
90DM₃ASMR-2*	90DM ₃ A Network, Wall Mount Enclosure, 0-50000 ppm
90DM₃ADTR-1*	90DM ₃ A Network, Duct Type Enclosure, 0-2000 ppm
90DM₃ADTR-2*	90DM ₃ A Network, Duct Type Enclosure, 0-50000 ppm
90DM₃ASMO3-1	90DM ₃ A Wall Mount Enclosure, Relay, 0-2000 ppm
90DM₃ASMO3-2	90DM ₃ A Wall Mount Enclosure, Relay, 0-50000 ppm
90DM₃ADTO3-1	90DM ₃ A Duct Type Enclosure, Relay, 0-2000 ppm
90DM₃ADTO3-2	90DM ₃ A Duct Type Enclosure, Relay, 0-50000 ppm

*Only Network output comes with these models.

Package:
D3

Display Option for 90DM₃A

Protecting your health and your environment.

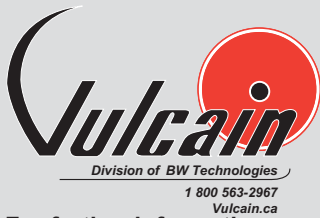
90DM₃A Infrared CO₂ Gas Monitor

Mounting Made Unique and Easy

To provide maximum versatility, the 90DM₃A is available with two different housing configurations, making it ideally suited to virtually any commercial or industrial gas detection application. Both enclosures are made of ABS plastic, offering maximum durability.

Designed to accurately detect the presence of CO₂ in air-handling systems, the DT Model represents a radical innovation in housing design. Unlike other units on the market today, the enclosure is totally airtight, more compact, and extremely lightweight, with a convenient mounting bracket to improve installation. All in all, its superior operational and cost efficiency make the DT Model the only choice for larger-scale CO₂ detection applications.

The SM Model is a wall-mounted unit with a compact and an aesthetically pleasing design which blends perfectly and discretely with any room decor. Easily installed directly onto drywall or other surfaces, the SM Model allows for superior gas circulation and airflow.



For further information:

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90DM₃A SPECIFICATIONS

Gas Detected:	CO ₂
Detection Range:	0-2000 ppm, *0-5%
Accuracy:	+/- 3%
Response Time:	35 sec. (for 90% of the reading)
Sensor Life Expectancy:	> 10 years
Relay Output Rating:	5A, 30 V _{DC} or 250 V _{AC} (resistive load)
*Display:	LCD
Outputs:	4-20 mA or 0-5 V _{DC} or 0-10 V _{DC} *1 SPDT Relay
Operating Humidity Range:	0-95% RH, Non-condensing
Operating Temperature Range:	32 °F to 100 °F / 0 °C to 40 °C

GENERAL SPECIFICATIONS

Size:	5.25 x 3.5 x 2 in. / 11.5 x 7.5 x 4.4 cm
Weight:	SM: 8.8 oz. / 200g DT: 10.56 oz. / 300 g
Power Requirement:	17-27 V _{AC} or 24-38 V _{DC} , 200 mA

*Option

Exclusive 5-Year Limited Warranty

Thanks to its exceptionally high-grade components and strict quality control, Vulcain's 90DM₃A CO₂ Gas Monitor comes with an exclusive 5-year warranty covering all parts and labor for the full length of the guarantee. Built to last and outperform competitive units, the 90DM₃A is the first product of its kind to come with such a comprehensive warranty, ultimately decreasing the expense of owning the equipment through significantly less downtime and major operating and maintenance cost savings.

DUE TO ONGOING RESEARCH AND PRODUCT IMPROVEMENT, SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.



- ① Optional LCD display
- ② Air inlet for surface Mount housing
- ③ Duct mount housing

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