

NOVA

MODEL 302M

PORTABLE CO₂ ANALYZER

APPLICATIONS

For checking CO₂ content of mushroom growing rooms, incubators, CO₂ in natural gas, C/A storage rooms, welding gas mixtures and other process applications.



FEATURES

- Fast response
- Solid state microprocessor infrared detector
- Easy to operate
- Easy to maintain
- Digital readout meter
- Rechargeable battery operated available (302BM)
- Built in sample pump, filter and flowmeter
- Housed in a weatherproof enclosure

OPTIONS

- Recorder outputs of 0-1V or 4-20 MA
- Rugged carrying case

NOVA ANALYTICAL SYSTEMS INC.
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DESCRIPTION

The Nova Model 302M Portable Analyzers have been designed for accuracy, reliability, ease of use and ease of service, providing a detailed analysis of CO₂ composition in a variety of applications. The 302M uses a microprocessor based infrared detector which responds quickly to CO₂ present in the sample gas. The CO₂ detector life is infinite under normal conditions of use.

In operation, a built in sample pump draws in the sample through the sample hose, filter/condensate trap, secondary filter and flowmeter then on to the CO₂ detector. The detected CO₂ is displayed on an LCD digital meter which has a switchable backlight for use in dark areas.

In the Model 302BM a rechargeable "gel cell" battery provides enough power for about 8 hours of continuous operation and the analyzer can be used while it is being recharged. A red LED tells when to recharge and a green LED verifies that it is receiving recharging power. The recharger is included.

The case is rugged, dust-tight and water resistant.

CALIBRATION

On air for zero (except low range models which have a CO₂ scrubber for zeroing).

On analyzed CO₂ cal gas for span.

SPECIFICATIONS

DESCRIPTION	
Method of Detection:	Microprocessor based infrared detector for CO ₂
Ranges:	Any range between 0-2000 PPM and 0-100% (please specify)
Display:	LCD digital with switchable backlighting
Resolution:	± 0.1% CO ₂ on % versions or ± 10 PPM on PPM versions
Accuracy and Repeatability:	Within ± 2% full scale
Drift:	1% full scale per 8 hours of continuous operation
Response Time:	10-12 seconds
Operating Temperature Range:	32°F to 105°F (0-40°C)
Size:	10" L x 7-1/2" H x 6-1/2" D (25.5 x 19 x 16.5 cm)
Weight:	Approx. 8 lbs (3.6 kg)
Power:	AC/DC operation. 115VAC 60Hz for recharging (Other voltages available)

Nova reserves the right to specification changes which may occur with advances in design without prior notice.

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