

870P SERIES PORTABLE INDUSTRIAL ANALYZERS



APPLICATIONS

For monitoring industrial process gases in any combination of carbon monoxide (CO), carbon dioxide (CO₂), methane (CH₄), hydrogen (H₂), and oxygen (O₂).

FEATURES

- Field cleanable infrared detector for reliable measurement of CO, CO₂, and CH₄
- Long-life thermal conductivity cell for H2
- Long-life paramagnetic or electrochemical O2 sensor
- H₂ reading compensated for CO, CO₂ and CH₄
- · LCD displays with gas readouts
- Upgraded chemical-resistant wetted sample train
- · Stainless steel internal fittings (where prudent)
- Built-in sample pump, flow meter and filters
- Rugged bench top (BT) style cabinet

OPTIONS

- Recorder outputs of 0-1V or 4-20 mA
- · Condensate removal for wet sample gas applications
- Suitcase (K) style cabinet available
- Methane-specific detector in place of standard hydrocarbons detector; allows more accurate CH4 analysis in other HC's
- High range analysis available up to 0-100% on all channels
- Internal battery for portable operation

NOVA ANALYTICAL SYSTEMS www.nova-gas.com



CALIBRATION

- Air for Zero and O₂ Span.
- Analyzed calibration gas mixture to span all readings except O₂

DESCRIPTION

The Nova 870P Series Industrial analyzers are designed for challenging applications that are typically outside the scope of smaller portable instruments. The Nova 870P Series analyzers utilize a durable field cleanable three channel high stability infrared detector for the simultaneous measurement of CO, CO₂, and CH₄. In addition, the analyzer can be supplied with a fully compensated thermal conductivity cell for H₂. Paramagnetic or electrochemical O₂ detector can also be supplied for measuring percent levels of oxygen in the sample gas stream. You may choose almost any combination of gases and analysis ranges to be measured.

The 870P series analyzers are complete with integral sampling pump, rechargeable battery (when feasible), filters, flow meter, and sampling hose. Recorder outputs are optional.

SPECIFICATIONS

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

Description	
Gases Measured:	CO, CO ₂ , CH ₄ by infrared detector; O2 by paramagnetic or electrochemical sensor H2 by thermalconductivity detector
Ranges Available:	0 - 2.0 %, 0 - 25.0 %, 0 - 50.0 % O2 Optional: 0 - 100.0 % O2 0 - 2.0 %, 0 - 50.0 % CO 0 - 100.0 % CO 0 - 100.0 % CO 0 - 2.0 %, 0 - 50.0 % CO2 0 - 100.0 % CO2 0 - 100.0 % CO2 0 - 2.0 %, 0 - 50.0 % CH4 0 - 100.0 % CH4 0 - 100.0 % CH4 0 - 2.0 %, 0 - 50.0 % H2 0 - 100.0 % H2 0 - 100.0 % H2
Resolution:	0.1% on % gases; 0.01% on low range CO, CO2, & CH4
Accuracy and Repeatability:	±1.0-1.5% of full scale, depending on gas measured
Drift:	Less than 1% of full scale in 8 hours
Response Time (T-90):	Approximately 20-30 seconds to 90% step range
Ambient Temperature Range:	32° to 122°F (0 to 50°C)
Linearity:	±1% of full scale for each gas measured
Size and Weight:	10" H x 10" W x 14" D (25 x 25 x 35 cm) @ approx. 20 lbs (9 kg) Actual size may vary depending on model and options selected
Power:	115 VAC 60Hz (220 VAC 50Hz available)
Output Options:	4-20 mA for each gas measured. 0-1 VDC or serial output also available

UNIQUE APPLICATIONS

All Nova analyzers are built using proven technologies and techniques. If this product does not suit your application, please contact Nova at 1-800-295-3771. In many cases, we are able to build an analyzer specific to your needs.



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