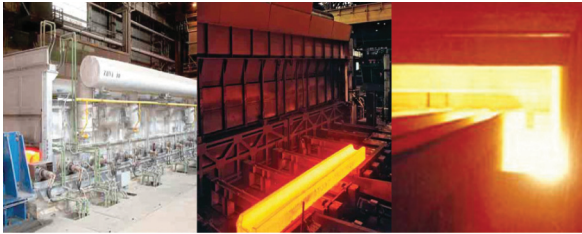


NOVA

Dependable Gas Analysis Solutions



7900P SERIES PORTABLE INDUSTRIAL ANALYZERS

APPLICATIONS

For monitoring heat treating atmosphere or process gases **in any combination** of carbon monoxide (CO), carbon dioxide (CO₂), methane (CH₄), hydrogen (H₂), oxygen (O₂), and dew point.



FEATURES

- Best value multi-gas portable analyzer
- Fast warm up and response time
- Long-life thermal conductivity cell for H₂
- Long-life electrochemical O₂ sensor
- Sensitive infrared detectors for CO, CO₂, and CH₄
- H₂ reading compensated for CO, CO₂ and CH₄
- LCD with backlight digital readouts
- Modular layout that is easy to maintain
- Rechargeable battery operation
- Built-in sample pump, flow meter and filters
- Rugged bench top (BT) style cabinet

CALIBRATION

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

OPTIONS

- Recorder outputs of 0-1V or 4-20 mA
- Condensate removal for wet sample gas applications
- Suitcase (K) style cabinet available
- AC only power operation
- Sensors temperature-controlled for maximum stability (AC powered versions only)
- Bright red LED displays in place of standard LCD



Suitcase Style (K) Cabinet

NOVA ANALYTICAL SYSTEMS INC.

www.nova-gas.com

DESCRIPTION

The Nova Model 7900P Series Heat Treat analyzers utilize a three channel high stability infrared detector for the simultaneous measurement of CO, CO₂, and CH₄ in exothermic or endothermic gas mixtures. In addition, the analyzer can be supplied with a fully compensated thermal conductivity cell for H₂. O₂ detectors can also be supplied for measuring either low (PPM) or percent levels of oxygen in the sample gas stream. Optional dew point is detected by a dielectric ceramic sensor and is available in standard and low ranges. All detected gases have a separate digital readout. Recorder outputs are optional. The customer may choose any combination of gases to be measured.

The 7900P series analyzers are complete with integral sampling pump, rechargeable battery, filters, flow meter, and sampling hose.

SPECIFICATIONS

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

Description

Gases Measured: CO, CO₂, CH₄ by infrared detector; O₂ by electrochemical sensor
H₂ by thermalconductivity detector; Dew point by dielectric ceramic sensor

Ranges Available: 0 - 1,000 PPM to 0 - 25.0% O₂
0 - 1.00%, 0 - 30.0% CO Optional dew point -
0 - 1.00%, 0 - 50.0% CO₂ Standard range: -40°F to +68°F (-40°C to +20°C)
0 - 1.00%, 0 - 50.0% CH₄ Low range: -112°F to +68°F (-80°C to +20°C)
0 - 2.0%, 0 - 50.0% H₂

Resolution: 0.1% on % gases; 0.01% on some low ranges; 1 PPM on PPM O₂;
1°F or 1°C Dew Point

Accuracy and Repeatability: 1-2% 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: 115VAC 60Hz (220VAC 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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