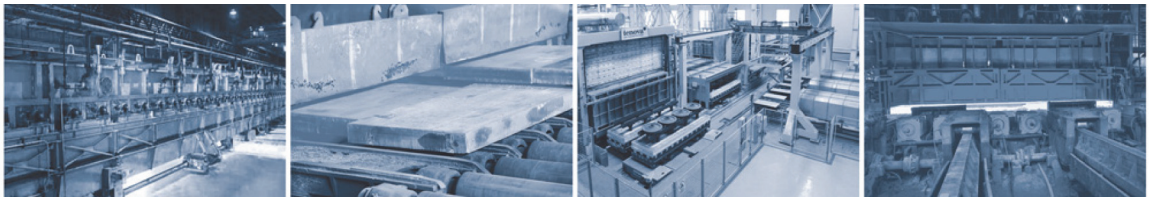
NOVA

Dependable Gas Analysis Solutions

340K-KX SERIES

PORTABLE ANALYZER FOR OXYGEN & HYDROGEN



APPLICATIONS

Analysis of oxygen/hydrogen (O_2/H_2) in exothermic furnace atmospheres for copper, brass, or steel annealing, neutral heating, sintering, glass metal beds, or oxide coating of steel.

FEATURES

- Rugged design that is easy to operate and maintain
- Fast warm-up and response
- Long-life electrochemical O_2 sensor easily detects air infiltration into furnace gas
- Long-life thermal conductivity cell that provides accurate & stable readings of H_2
- Digital meter readous with backlight
- Rechargeable battery operation
- Built-in sample pump, filter, & flow meter
- Durable suitcase-style cabinet that is weather-proof when closed (K)

340 series with optional printer

OPTIONS

- 4-20mA recorder output & data logging
- Sample pre-cooler for hot samples
- Condensate removal for wet applications
- Suitcase style cabinet (K) with display moved to exterior (KX)
- Dual range O2 (0-25.0% & 0-2.00%) (Model 341)
- Special PPM O2 sensor (500 to 9,999 PPM) (Model 340L)

Optional Ice Bath Precooler

CALIBRATION

- On air for H_2 zero and % O_2 span
- On analyzed mixture of % H_2 in N_2 for H_2 span and O_2 zero
- On analyzed mixture of PPM O_2 in N_2 for PPM O_2 span

NOVA ANALYTICAL SYSTEMS

www.nova-gas.com

DESCRIPTION

The Nova 340 Series Portable Analyzer has been designed for the dual measurement of O_2 and H_2 in furnace atmosphere gases. A built-in sample pump draws in a sample of atmosphere gas where it is detected for oxygen by a long-life oxygen sensor. At the same time, H_2 is detected by a long-life thermal conductivity cell.

The Model 341 is a dual range O_2 version that can be switched between the standard range (0-25.0%) and a lower range (0-2.0%) using the same sensor. For applications requiring a PPM O_2 measurement, a special low range version is available (Model 340L). The Models 340 & 341 have rechargeable battery operation, a flow meter, filter, sample hose, and dual digital readouts. A recharger is included. 4-20mA recorder outputs optional.

MODELS

- 340 - % O_2 / % H_2
- 340L - % H_2 & PPM O_2 version
- 341 - % H_2 & Dual Range O_2

SPECIFICATIONS

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

Description	
Method of Detection:	Long-life electrochemical O_2 sensor, temperature-compensated thermal conductivity (T/C) H_2 cell, cannot be burned out due to loss of flow or changing gases
Ranges Available:	0-25.0% O_2, 0-40.0% H_2 (Model 340) 0-2.0% and 0-25.0% O_2, 0-40.0% H_2 (Model 341) 0-500 to 0-9,999 PPM O_2, 0-40% H_2 (Model 340L)
Resolution:	0.1 % on % ranges; 1 PPM on PPM O_2 range
Accuracy and Repeatability:	±2% of full scale for O2 & H2
Drift:	±1% of full scale per day
Response Time (T-90):	Less than 10 seconds to 90% step change
Ambient Temperature Range:	55° to 120°F (12° to 50°C)
Linearity:	±2% of full scale
Size and Weight:	Approx. 35.5L x 15.2H x 26.6D cm @ 5.5 kg (14" x 6" x 10½" @ 8 lbs)
Power:	115VAC 60Hz for recharging (220VAC 50Hz available)
Output Options:	4-20mA

UNIQUE APPLICATIONS

The Nova T/C cell may respond non-target gases and may need to be compensated / corrected either directly inside the analyzer, or in the calibration process. Consult Nova on these types of applications. All Nova analyzers are built using proven technologies and techniques. If this product does not suit your application, please contact Nova.

NOVA ANALYTICAL SYSTEMS
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