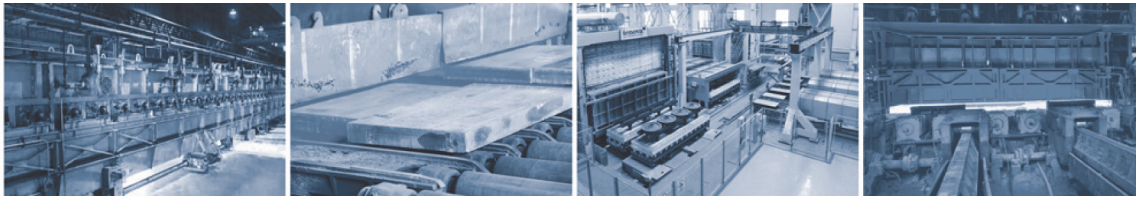




Dependable Gas Analysis Solutions

203 Series

PORTABLE LOW RANGE DEW POINT ANALYZER



APPLICATIONS

For checking lower range dew points of air, hydrogen/nitrogen atmospheres, or other dry process gases.

FEATURES

- Low range of -112° to $+68^{\circ}\text{F}$ (or -80° to $+20^{\circ}\text{C}$) Dew Point
- Easy to operate; long-life sensor
- Fast warm-up and response
- Use on any non-corrosive industrial gases or air
- Built-in sample pump, filter, and flow meter
- Blocking solenoids used to trap low DP gas in cell for quick purge down and to protect cell when not in use, or during initial sample line purge
- Touch-screen display of gas readings
- Rechargeable battery operation
- Suitcase style case with choice of display locations

OPTIONS

- 4-20mA recorder output
- Built-in sample pump or pressure regulator
- Data logging
- Type 'K' suitcase style cabinet, internal display
- Type 'KX' suitcase style cabinet, external display



203K - standard suitcase enclosure (K)



203KX - suitcase enclosure with external display (KX)

NOVA ANALYTICAL SYSTEMS

www.nova-gas.com

DESCRIPTION

The Model 203 Series Portable Dew Point Analyzers have been designed primarily for accurate dew point measurement of dry non-corrosive industrial gases, or dry oil-free air. The aluminum oxide sensing element varies its electrical capacitance in direct proportion to variations in the sample gas dew point.

The 203 Series can have either a built-in pressure regulator for positive pressure samples, or a built-in sample pump for atmospheric pressures, or both. The sample flow is shown on a flowmeter on the front or top panel. The dew point is shown on a touchscreen display. A 4-20mA output is optionally available. Some models have rechargeable battery operation. Please contact Nova for the correct version for your application.

SPECIFICATIONS

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

Description	
Method of Detection:	Aluminum oxide capacitance sensor
Ranges Available:	-112° to +68°F (-80° to +20°C) (other ranges available on special order)
Resolution:	1°F Dew Point (1°C)
Accuracy and Repeatability:	± 1°F from -76° to +68°F Dew Point; ± 2°F from -112° to -76°F ± 1°C from -60° to +20°C Dew Point; ± 2°C from -80° to -60°C
Drift:	± 1°F Dew Point max. for temperatures between -20 to +40°F ± 0.5°C Dew Point max. for temperatures between -29 to +4°C
Response Time (T-90):	Less than 30 seconds at higher dew points; Lower dew points may take up to 1 minute (sensor must be in pre-dried state)
Ambient Temperature Range:	0° to 120°F (-18° to 50°C)
Linearity:	± 2°F / C over measurement range
Size and Weight:	K style - approx. 14" W x 6" H x 6½" D @ 12 lbs (35 x 15 x 17 cm @ 5.5 kg)
Power:	115VAC 60 Hz for recharging (230VAC 50 HZ also available)
Output:	4-20mA

UNIQUE APPLICATIONS

The 203 Series should not be used to measure dew points when trace amounts of acidic gases such as sulfur dioxide (SO₂), sulfur trioxide (SO₃), chlorine (Cl₂), hydrogen chloride (HCl), or ammonia (NH₃) are present. 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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