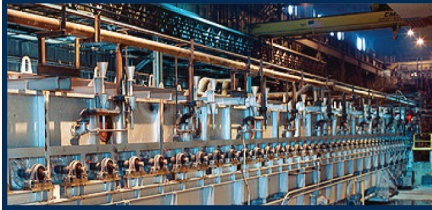


# NOVA

Dependable Gas Analysis Solutions

## 207 Series PORTABLE DEW POINT ANALYZER



### APPLICATIONS

For checking dew points of air, heat treat furnace gases, compressed air lines, and other applications with oils or contaminants present.

### FEATURES

- Standard range of -40°F to 104°F (or -40°C to 40°C)
- Rugged design that is easy to operate
- Use on any non-corrosive gas
- Long-life dielectric polymer sensor
- May be calibrated in the field
- Bright digital readout
- Built-in sample pump, filter, and flow meter
- Suitcase style enclosure is standard
- Sensor easily replaced if contaminated
- Factory-calibrated to NIST traceable standards

### OPTIONS

- Recorder outputs of 0-1V or 4-20mA
- Calibration kit
- Rugged weatherproof enclosure (WP)
- Bench top enclosure (BT)

### CALIBRATION

- Calibration is easily performed in the field using the optional calibration kit (Part no. NDPCK-02).
- Alternatively, the analyzer may be returned to Nova for a certified calibration



Standard "K" Suitcase Enclosure



Optional Weatherproof (WP) Enclosure



Optional Bench Top (BT) Enclosure

NOVA ANALYTICAL SYSTEMS

[www.nova-gas.com](http://www.nova-gas.com)

## DESCRIPTION

The Nova 207 Series Portable Dew Point Analyzers have been designed primarily for accurate dew point measurement of exothermic and endothermic heat treating atmospheres.

The dielectric polymer sensor provides stable and accurate dew point measurements and is not affected by most gas compositions. See below for exceptions.

A built-in sample pump draws in samples that are of insufficient pressure from the process. The sample flow is shown on a small rotameter with valve. The analyzer then reads the dew point continuously.

## MODELS

- 207K standard suitcase cabinet
- 207WP optional weather-proof cabinet
- 207BT optional bench top cabinet
- 207CAA-B - compressed air applications 5 to 125 psig
- 207CAA-C - compressed air applications 5 up to 3000 psig  
*(cabinet style choices may be limited in compressed air application)*

## SPECIFICATIONS

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

Description	
<b>Method of Detection:</b>	Dielectric polymer sensor that changes capacitance with moisture variation
<b>Ranges Available:</b>	-40°F to 104°F (or -40°C to 40°C) Dew Point
<b>Resolution:</b>	1°F (1°C) Dew Point
<b>Accuracy and Repeatability:</b>	±1°F (±1°C) Dew Point
<b>Drift:</b>	Less than 1% of full scale per month
<b>Response Time (T-90):</b>	Less than 30 seconds
<b>Ambient Temperature Range:</b>	40° to 120°F (4° to 49°C)
<b>Linearity:</b>	Better than 1°F (1°C) Dew Point
<b>Size and Weight:</b>	K suitcase style - approx. 14" L x 6" H x 10½" D @ 12 lbs (35 x 15 x 26 cm @ 5.5 kg) WP style - approx. 11½" L x 8" H x 7¼" D @ 8 lbs (29 x 20 x 18 cm @ 3.6 kg) BT style - approx. 10" L x 10" H x 8" D @ 12 lbs (25 x 25 x 20 cm @ 5.5 kg)
<b>Power:</b>	AC/DC operation. 115VAC 60 Hz for recharging (other voltages available)
<b>Output Options:</b>	4-20 mA or 0-1 VDC
<b>Alarms:</b>	High or low dew point alarms with LED (optional)

## UNIQUE APPLICATIONS

The 207 Series should not be used to measure dew points when trace amounts of sulfur trioxide (SO<sub>3</sub>), chlorine (Cl<sub>2</sub>), hydrogen chloride (HCl), or ammonia (NH<sub>3</sub>) 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.



NOVA ANALYTICAL SYSTEMS  
A UNIT OF TENOVA GOODFELLOW INC.

IN USA:  
1925 Pine Avenue • Niagara Falls, NY • 14301  
Tel: 1-800-295-3771 • 716.285.0418 • Fax: 716.282.2937  
IN CANADA:  
270 Sherman Avenue North • Hamilton, ON • L8L 6N5  
Tel: 905.545.2003 • Fax: 905.545.4248  
email: sales@nova-gas.com  
websales@nova-gas.com



www.nova-gas.com