



207RT Series PORTABLE DEW POINT TRANSMITTER

APPLICATIONS

For continuous dew point monitoring of atmospheric gas from endothermic generators.

FEATURES

- Standard range of -40°F to +104°F (-40°C to +40°C)
- No moving parts
- 4-20mA output to controllers and recorders
- Long-life dielectric polymer sensor
- May be calibrated in the field
- · Bright digital readout
- Runs on 12 to 24VDC
- Mounts anywhere on gas main between generator and furnace
- Sensor easily replaced if contaminated
- Factory calibrated to NIST traceable standards

OPTIONS

- Display also available loose for remote panel mounting (207RT-PM)
- Also available with display and sensor only as a spare during calibration or repair periods - flow-through chamber remains attached to process
- Calibration kit
- Power supply optionally available

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



207RT - with flow-through chamber, rotameter, & attached display

DESCRIPTION

The Nova 207RT Series Continuous Dew Point Transmitters have been designed primarily for accurate dew point measurement of atmosphere gas from endothermic gas generators. The 207RT may be mounted anywhere on the gas main between the generator and the furnace. The dielectric polymer sensor provides stable and accurate dew point measurements and is not affected by most gas compositions.

Because there is no built-in sample pump to draw in a sample, the positive pressure produced by the generator pushes the sample into the flow-through chamber. The sample flow is shown on a small rotameter with valve. The analyzer then reads and displays the dew point continuously.

MODELS

- 207RT: with flow-through chamber, rotameter, and attached display
- 207RT-PM: same as 207RT except with display supplied loose for remote panel mounting
- 207NFT: sensor and display without flow-through chamber for use as spare

SPECIFICATIONS

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

Description	
Method of Detection:	Dielectric polymer sensor that changes capacitance with moisture variation
Ranges Available:	-40°F to +104°F (-40°C to +40°C) Dew Point
Resolution:	1°F (1°C) Dew Point
Accuracy and Repeatability:	±1°F (±1°C) Dew Point
Drift:	Better than 1% of full scale per month
Response Time (T-90):	Less than 30 seconds
Ambient Temperature Range:	0° to 120°F (-18° to 49°C)
Linearity:	Better than 1°F (1°C) Dew Point
Size and Weight:	Approx. 10" L x 6" W x 4" D @ 5 lbs (26 x 15 x 10 cm @ 2.3 kg)
Power:	12 to 24VDC
Output Options:	4-20 mA included standard
Alarms:	none available

UNIQUE APPLICATIONS

The 207RT Series should not be used to measure dew points in oily vapors or when trace amounts of 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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