



Model 1635 Water Vapour Transmitter



Moisture measurement improves product quality and consistency, and reduces fuel costs for drying processes.

The Novatech 1635 Water Vapour Transmitter provides rapid payback for drying processes including:

- Paper machine drying hoods
- Timber drying kilns
- Ceramics drying
- Textile drying
- Gypsum and plasterboard drying

The Novatech 1635 Water Vapour Transmitter can provide accurate moisture control of drying oven atmosphere up to 600°C:

- Easy-to-operate, reliable, no regular calibration needed
- Select the analyser readout for your application, for example:
 - Percent water vapour
 - Grams per kilogram
 - Dew point temperature
 - Percent Relative Humidity (RH)
- Accurate, rapid response, low drift and rugged Zirconia Oxygen sensor
- Highly responsive, eg: typically 3 seconds for indirectly heated applications
- RS232/485 computer/printer interface
- Two isolated 4-20 mA outputs
- Programmable alarms

Accuracy and reliability

The oxygen sensor which measures water vapour by virtue of the Oxygen present in the oven atmosphere, provides accurate and virtually drift-free measurement for years and is the most robust zirconia sensor in the world.

Controlling humidity

The Novatech 1635 water vapour transmitter can be used with controllers including PLCs to provide accurate, continuous control of moisture level in the drying oven or process.

Reports

Connect a standard printer or PC to the instrument's serial interface.

Specifications

Analyser

Model 1635

Range

Keyboard set in any of the following ranges:

- 0 to 100% volume of water vapour
- 0 to 100% Relative humidity
- 0 to 10,000g/kg or lb/1000lb Moisture
- - 50 to 100°C Dew point

All ranges have adjustable zero and span.

Outputs

- Two isolated 4 to 20 mA DC linear outputs for humidity & temperature or optionally Oxygen, alarm relays and RS-232 computer interface.

Span and Zero

- Keyboard set for each range. When the measurement is below the minimum value for any range, the output will be frozen to a keyboard selected value.

Displays

- 32 character digital display in English language.

Alarms

- Self diagnostics for the probe and analyser automatically run each minute, alarms are displayed in English language.

Speed of response

- Typically 3 seconds for indirectly heated applications. Typically 30 seconds for directly fired applications. The sensor response time is 100 milliseconds.

Calibration

- Automatic, no adjustments are necessary.

Accuracy

- Refer to Novatech for calculation for specific applications.

Repeatability

- Refer to Novatech for calculations for specific applications.

Power supply

- 110 or 240 VAC, 50/60Hz, 115 watts with probe connected.

Weight

- 3.2kg

Dimensions

- 300mm wide x 125mm high x 95mm deep

Sensing Probe

Model 1231

Length

- 250mm, 350mm, 500mm, 750mm

Process temperature

- 0 to 600°C

Process connection

- 1.5 inch BSPT or NPTT

Operating temperature

- 720°C with integral heater safety interlock for applications where flammable gas may come in contact when burner(s) are not turned on.

Head temperature

- 100°C

Reference air connection

- 1/4" tube

Reference gas flow

- Less than 50cc/minute

Probe cable

- Supplied with weatherproof connector to specified length, maximum 100 metres

Power supply

- Supplied from model 1635 analyser

Weight

- 0.6kg plus 0.33kg per 100mm of length

Reference Gas Sensor

(Required for directly fired applications only)

Model RGS-01

Connections

- Inlet and outlet, 3/8 inch tube compression fitting

Power Supply

- Supply fed from the 1635 analyser

Weight

- 3.3 kg

Mounting

- Surface

Distributed by:



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