A DIVISION OF

Machine Application Corporation

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www.macinstruments.com





HIGH TEMPERATURE

ABSOLUTE HUMIDITY MEASUREMENT



The MAC125 Moisture Analyzer is a major advancement in the measurement of absolute humidity.

The measurement process is solid state. No chemicals, compressed air, wet bulb techniques, optics or mirrors are used. The probe is protected from particulates by a 10 micron ceramic filter element, that is cleanable and replaceable.

The measurement process is patented and uses a proprietary sensor which responds to the partial pressure of water vapor. The total pressure is also measured, and the moisture level is calculated from the ratio of the pressures.

The MAC125 is the latest generation of Absolute Humidity Transmitter from MAC The MAC125 and it's Instruments. predecessors are providing accurate, high temperature humidity reliable, measurement in many difficult industrial applications throughout the world, since 1990.

Measure Absolute Humidity to Virtually Any Temperature Measure moisture in a flame

Jumper Selectable Scales % moisture by volume or Humidity ratio (mixing ratio) (lb water vapor / lb dry air) (q water vapor / q dry air)

Dew Point Available

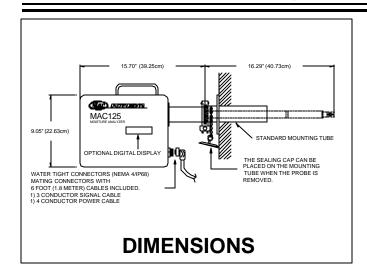
NEMA 4X / IP53 Waterproof Design Suitable for outdoor installation

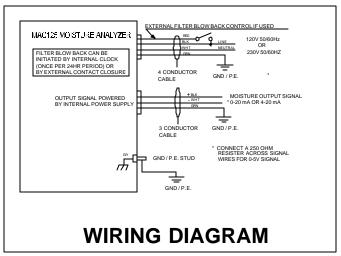
Severe Duty Industrial Construction Stainless Steel Barrel Cast Aluminum Enclosure

- **Patented Process**
- **In-situ Measurement** mounts directly to stacks, ducts, flues, ovens, furnaces, calciners, kilns, dryers, fuel cells, etc
- **Standard Signal Outputs** jumper selectable 0-20MA (0 to 5V with 250 Ω Load) 4-20MA (1 to 5V with 250 Ω Load)
- **Automatic Altitude/Pressure** Compensation
- **Digital Display Option** (Built into MAC 125)
- Filter Blow Back Option*
- Case Heater Option Extend ambient temperature rating to -40°F/-40°C
- Case Cool Option* Extends maximum allowable ambient temperature *requires 10psi/1.5kp clean dry air

HE STANDARD FOR HIGH TEMPERATURE ABSOLUTE HUMIDITY MEASUREMENT

MAC 125 Moisture Analyzer





SPECIFICATIONS

<u>Model</u>	% Moisture By Volume	Humidity Ratio	Dew Point(Special Order)
MAC125-100-*	0 to 100%	0 to 10	62° to 212°F/16° to 100°C
MAC125-60-*	0 to 60%	0 to 1.0	37° to 187°F/3° to 87°C
MAC125-30-*	0 to 30%	0 to .25	7° to 157°F/-14° to 70°C
MAC125-20-*	0 to 20%	0 to .15	-9° to 141°F/-22° to 62°C
MAC125-10-*	0 to 10%	Not Available	Not Available

^{*}Specify 120V or 230V

Temperature Range 40°F/4°C to 1200°F/650°C

Above 1200°F Requires special Mounting Tube

Accuracy±1% of %M∨ Full Scale

Linearity ±1% of %Mv Full Scale

Hysteresis ±1% of % M∨ Full Scale

Response Time 60 Seconds or less reach 90% of final value*

*with High Speed Pump Option



