

Via Acquanera, 29 tel. 031.526.566 (r.a.) fax 031.507.984 info@calpower.it

22100 COMO www.calpower.it MAC 125 Moisture Analyzer

for 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 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.

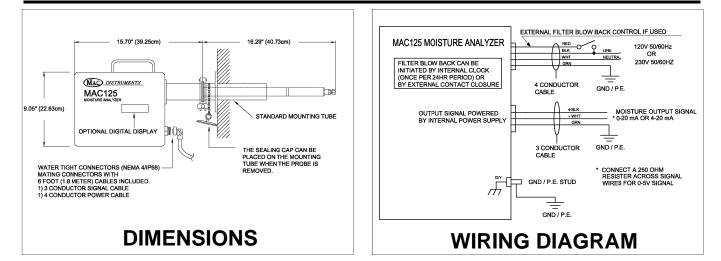
The MAC125 is the latest generation of Absolute Humidity Transmitter from MAC Instruments. The MAC125 and its predecessors are providing accurate, reliable, high temperature humidity measurement in difficult industrial manv applications throughout the world, since 1990.

- 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)
- **NEMA 4X / IP53** Waterproof Design Suitable for outdoor installation
- **Severe Duty Industrial Construction Stainless Steel Barrel** Cast Aluminum Enclosure
- 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 250Ω Load) 4-20MA (1 to 5V with 250Ω 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/69kp clean dry air

THE STANDARD FOR HIGH TEMPERATURE ABSOLUTE HUMIDITY MEASUREMENT

MAC 125 Moisture Analyzer



SPECIFICATIONS

Model	<u>% Moisture By Volume</u>	Humidity Ratio
MAC125-100-*	0 to 100%	0 to 10
MAC125-60-*	0 to 60%	0 to 1.0
MAC125-30-*	0 to 30%	0 to 0.25
MAC125-20-*	0 to 20%	0 to 0.15
MAC125-10-*	0 to 10%	Not Available
*Specify 120V or 230V		
Temperature Range 40°F/4°C to 1200°F/650°C Above 1200°F Requires special Mounting Tube		
Pressure Range 1 Atmosphere ±5 PSI/35kP		
Accuracy		
Linearity ±1% of %M∨ Full Scale		
Hysteresis ±1% of % M∨ Full Scale		
Response Time		
Analog Output		
Power Requirements -Model-120V 100V-132V 50/60 Hz @ 3A Max.		
-Model-230V 200V-250V 50/60 Hz @ 1.5A Max.		





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