

# AQMS Monitoring Unit

## Product Specifications



The Ventsim AQMS unit monitors and transmits the following environmental parameters :

- ✓ Relative Humidity;
- ✓ Dry bulb temperature
- ✓ Wet bulb temperature (calculated)
- ✓ Wet bulb global temperature (calculated)
- ✓ Dew point (calculated)
- ✓ Speed, direction, and air flow (via flow accessory BFS or BFSE)
- Gas levels (via gas sensor accessory MCSGSxxx)

The AQMS units have the capacity to connect up to two bi-directional flow sensors, 4 gas sensors and a temperature and relative humidity sensor. The AQMS unit can be integrated via Ethernet, using Modbus TCP-IP protocol to provide feedback to the Ventsim control software.

Monitoring and configuration can be done through any standard web browser.

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Product specifications (AQMS)	
Power	110-230 VAC, 50-60 Hz.
Enclosure	Steel painted Enclosure IP-65: Stainless Steel 304 as an option Width: 8" or 20 cm Length: 10" or 25 cm Height: 14" or 35 cm Aluminum mounting plate: 16" x 12" (40.64 cm x 30.481 cm)
Instruments connectivity	2 flow sensors Configurable air flow according to drift area Configurable correction factor 4 gas sensors (CO, NO, NO <sub>2</sub> , O <sub>2</sub> , SO <sub>2</sub> , CO <sub>2</sub> , LEL Methane, and over 50 different gases also available)

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Alarms	<p>Hi, HiHi, Lo and LoLo on</p> <p>Air speed</p> <p>Air flow (Configurable air flow according to drift area)</p> <p>Temperature (Dry bulb and Wet bulb)</p> <p>Relative humidity</p> <p>Gas levels</p>
Local display	<p>3 color DEL 70mm Globe light</p> <p>Green: System OK</p> <p>Yellow: Hi or Lo Alarm</p> <p>Blinking Yellow: HiHi or LoLo Alarm</p> <p>Red: Unit fault</p>
Configuration	<p>Web page through Ethernet</p>
Communication	<p>One (1) Ethernet connection port (connection LAN or Modbus TCP for PLC or SCADA)</p> <p>Two (2) RS-485 ports with capacity to connect two (2) bi-directional flow sensors BFS</p> <p>Four (4) Gas connectors</p> <p>Option to connect with Ventsim software on surface</p>