



Multipoint Air Managers for BMS Environments

Airtopia's Multipoint Series is a range of Smart Air Management products designed for direct interface with Building Management Systems. They take HVAC control past managing comfort and economy, to include a new focus on individual wellbeing.

The flagship Multipoint model combines temperature, relative humidity, and carbon dioxide density monitoring in a single, inconspicuous wall plate. There are also models without CO² monitoring for ancillary applications. They provide precise and reliable measurement for visual display and timely control of climate equipment through the building management system.

Automatic functions can be integrated through a simple protocol and multiple modules can be networked for global monitoring and management. Advanced remote access is available with additional equipment.

Feature Summary

- Accurate and reliable measurement of temperature, relative humidity, and CO² density (where applicable)
- Industry leading sensing range, accuracy, repeatability, and response times
- CO² measured using NDIR method with built in reference channel and temperature compensation
- Supply: 12-24Vdc (140mA @ 12Vdc)
- Connect to MODBUS via RTU or Wifi
- Visual status indication (Green, Amber, Red), programmable via MODBUS registers or onboard selection
- Digital input connection
- Multiple units can be networked for global monitoring and management
- Advanced remote access is available with additional equipment

MPQDW

CO², Temperature and Relative Humidity

Local visual indication
Direct control via direct BMS RTU or Wifi connection



MPXDW

Temperature and Relative Humidity

Local visual indication
Direct control via direct BMS RTU or Wifi connection



MPXD

Temperature and Relative Humidity

Local visual indication
Direct control via direct BMS RTU connection only



Experience the climate control revolution today at airtopia.com
or call **1800 247 867** to speak to one of our climate control experts.

Multipoint Air Managers

Measure Function	MPQDW	MPXDW	MPXD
Carbon Dioxide	X	X	-
Temperature	X	X	X
Relative Humidity	X	X	X
Digital Inputs			
Dry contact	1 x dry contact, 2 screw edge connection Single action based on open or closed contact		
Outputs			
Direct connection to ModBus through RTU	X	X	X
Wireless connection to ModBus through Wifi	X	X	-
Visual	Programmable Green Amber Red display		
Audible	-	-	-
Operational			
Supply	5-24Vdc, 140mA @ 12Vdc, 2 screw edge connection		
Environment	5°C to 50°C, 0-90% relative humidity (non condensing)		
Sensor specifications	CO ² (NDIR method)	Temperature	Relative Humidity
Range	0 -10,000ppm (+/- 2.5ppm 0-50°C)	-40°C - 120°C (-40°F - 248°F)	0-100%
Accuracy	+/- 30ppm +/-3% (@ 25°C)	+/- 5°C (0-500C)	+/-2%
Repeatability	10ppm	0.1°C	0.1%
Response time	20s (t ₆₃)	>2s	8s (t ₆₃)

Visual Indicator Table and Ranges

	Red	Amber	Green	Amber	Red
Measure	Under Alert	Under Warning	Normal	Over Warning	Over Alert
CO ²	N/A	N/A	400 - 800ppm	800 - 1200ppm	>1200ppm
Temperature	<18°C	18< >20°C	20 - 24°C	24< >26°C	>25°C
Humidity	<32%RH	32< >38%RH	38 - 60%RH	60< >65%RH	>65 %RH

Note: Only one Measure can be linked to the **Visual Indicator** at any one time
Visual Indicator can be linked to the selected Measure through Modbus Registers or by on board selector switch
Default ranges can be programmed to preferred levels through Modbus registers