

Product Comparison Table

Product	AQM 65	AQS 1	Dust Sentry	Ranger	S Series
Measurement Parameters	PM ₁ , PM _{2.5} , PM ₁₀ , TSP O ₃ , NO ₂ , NO _x , CO, SO ₂ , VOC, H ₂ S, CO ₂ , CH ₄ , BTEX Noise, Meteorological	PM ₁ , PM _{2.5} , PM ₄ , PM ₁₀ , TSP O ₃ , NO ₂ , CO, SO ₂ , VOC, H ₂ S, CH ₄ Noise, Meteorological	PM ₁ , PM _{2.5} , PM ₄ , PM ₁₀ , TSP Noise, Meteorological	PM ₁ , PM _{2.5} , PM _{rsp} , PM ₁₀ , TSP O ₃ , NO ₂ , CO, SO ₂ , VOC, H ₂ S, CO ₂ , Formaldehyde, Ammonia, Cl ₂ , CH ₄ , H ₂ , NMHC, C ₂ Cl ₄	PM _{2.5} , PM ₁₀ O ₃ , NO ₂ , CO, SO ₂ , VOC, H ₂ S, CO ₂ , Formaldehyde, Ammonia, Cl ₂ , CH ₄ , H ₂ , NMHC, C ₂ Cl ₄ , T/RH
Power Supply	Mains recommended	Mains, solar, battery	Mains, solar, battery	Mains, battery (>20 hours)	Mains, battery (>6 hours)
Operating Range	-35°C to +50°C -31°F to +122°F	-10°C to +45°C 14°F to 113°F (low temp extendable with winterization kit)	-10°C to +45°C 14°F to 113°F (low temp extendable with winterization kit)	-10°C to +40°C 14°F to +104°F	-5°C to +45°C 23°F to 113°F
Key Features	<ul style="list-style-type: none"> Near reference gas and PM measurement Patented ABC gas module technology Thermally controlled enclosure Extended environmental operating range Heated PM inlet Choice of multi-channel OPC or Nephelometer 	<ul style="list-style-type: none"> Near reference gas and PM measurement Patented ABC gas module technology Multi-channel PCX or Nephelometer with cyclone Heated PM inlet PM flow measurement and regulation¹ 	<ul style="list-style-type: none"> Near-reference PM measurement Multi-channel PCX or Nephelometer with cyclone Heated PM inlet PM flow measurement and regulation¹ 	<ul style="list-style-type: none"> Real-time, active-sampling handheld monitor Can be configured with a wide range of swappable sensor heads Multichannel OPC for PM 20+ hour battery Large display Remote monitoring and alerts Wi-Fi and USB data transfer 	<ul style="list-style-type: none"> Real-time, active-sampling handheld monitor Can be configured with a wide range of swappable sensor heads 6+ hour battery RS-232 USB data transfer
IP Rating	IP65	IP65	IP65	IP20	IP20
Weight	< 30 kg; <65 lb	< 13 kg; <28.6 lb	< 13 kg; <28.6 lb	< 430 g; <15 oz	< 460 g; < 16 oz (with sensor head & battery)
Software /Connectivity	Cloud via Wi-Fi/Cellular	Cloud via Wi-Fi/Cellular	Cloud via Wi-Fi/Cellular	Cloud via Wi-Fi; USB	RS-232 to USB
System Design Life (with routine servicing and maintenance)	10 years	10 years	10 years	10 years	5 years
Sampling Method	Pump	Pump	Pump	Fan	Fan
Calibration	Factory/Lab; Co-location; MOMA; Calibration gas	Factory/Lab; Co-location; MOMA; Calibration gas	Factory/Lab; Co-location; MOMA	Factory / Lab; Hot-swap	Factory / Lab; Hot-swap
Approvals	PM ₁₀ MCERTS	PM _{2.5} ¹ , PM ₁₀ MCERTS, Rule 1466	PM _{2.5} ¹ , PM ₁₀ MCERTS, Rule 1466		

¹ Only available on PCX equipped instruments



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