

Site-Level Continuous Monitoring Specifications

Detection temperature range¹
-40 to 70°C

Detection relative humidity range²
10 – 100%

Minimum detection limit³
0.1 kg/hr

90% Probability of detection³
1.5 kg/hr

Measurement frequency⁴
3-5 seconds

Quantification frequency
1 minute

Transmission frequency⁴
1-20 minutes

Connectivity
LTE

Solar panel
30-45W

Battery Life⁵
Over 7 days of reserve

Regulatory Compliance and Certifications

**US EPA OOOOb/c,
Alberta Alt-FEMP**

**OGMP 2.0 Level 5
MiQ Certification**

Sensor	Unit (Output)	Range	Resolution	Lifespan (Years)
CH ₄	ppm	0 – 100, 101 – 1,000	≤1 ppm, >10 ppm	>5
CO	ppm	0 – 1,000	0.1 ppm	>5
CO ₂	ppm	0 – 40,000	40 ppm	>10
SO ₂	ppb	0 – 20,000	50 ppb	>5
H ₂ S	ppb	0 – 10,000	10 ppb	>5
NO ₂	ppb	0 – 5,000	20 ppb	>5
NH ₃	ppm	0 – 200	1 ppm	>5
VOC's	ppm (COe)	0 – 400	100 ppb	>5
PM* 1, 2.5, 4 & 10	µg/m ³	1 – 1000	1 µg/m3	8
Wind & Direction	Km/h, Degree °	0 - 230 Km/h, 0 - 360°	1 Km/h, 1°	10

Notes

1. Temperature detection range varies depending on whether high temp or gen3 CH₄ sensors are deployed. Gen 3 temp range is -40 to +50°C. High temp range is -10 to 60°C.
2. Relative humidity range varies depending on whether high temp or gen3 CH₄ sensors are deployed. Gen 3 RH range is 10-90% RH. High temp range is 10-100% RH.
3. Minimum detection limit and 90% probability of detection verified through blinded third-party testing at METEC. Qube's own testing indicated a 90% PoD of 1kg/hr
4. Measurement, transmission frequency varies depending on compression at device level (e.g., if no detection the transmission frequency lowers)
5. Battery is capable of discharge at -40°C but solar recharge limited at -20°C which is why a reserve of over 7 days at 100% is included