



CAQM 40

Compact Air Quality
Monitoring System



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CAQM 40

Air Quality Monitoring System

CAQM 40 is the innovative air quality monitoring system designed and manufactured by Canenviro to collect the data from a variety of sensors and present the sensor's data in an interface. It is a complete integrated, temperature-controlled air quality monitoring system that delivers performance to the near of reference level in real-time monitoring.

The CAQM 40 can be configured to fit a wide range of applications. Users can select the sensor from a list of sensors to monitor gas pollutants, dust, meteorological parameters, and noise.

Features

Accurate data

Easy installation, configuration and set up

Low price

Low power consumption

Low maintenance cost

Applications

Urban Air Quality

Road street Pollution

Industrial Area

Landfill & Composting Area

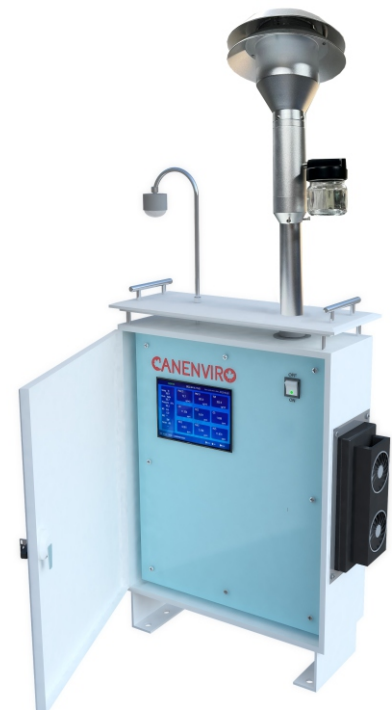
Research Applications

Fence line Monitoring

Oil & Gas

Mining & Construction Site

Waste Water Treatment Plant



Parameters

SO₂

NO₂

NH₃

H₂S

CO₂

O₃

TVOC

PM_{2.5}

PM₁₀

TSP

T

RH

WS

WD

OTHER



Communication
SD/USB/3G/4G Cellular



Installation
Unit Easily can be Configure & installed



Data Storage
Unit has the internal memory to store the data



Cloud Access
Unit can be access using cloud hosting

Specifications

Product Name	Compact Air Quality Monitoring System
Model Number	CAQM 40
Maximum number of Sensors	Up to 20 sensors
Type of Sensors	PID, NDIR, EC, Laser Particle Counter
Sampling Rate	1-2 LPM (adjustable)
Power requirements	100-240V
Power Consumption	30W without AC / 500W with AC (depends on the configuration)
Data Logging	32GB (>3 years data storage capacity)
Monitoring Interval	1 Min (by Default)
Data Transmission	SD Card (by Default) Cellular 3G or 4G (Optional)
Cloud Server	Cloud.canenviroinc.com Manage your real time/historical data using PC from anywhere, avoiding to site visit every time (Optional)
On-Board Server	Included by Default
User Interface	7" touch screen inside the panel door along with controller
Operating Temperature Range	-30 to +55 °C, heating and AC System (optional)
Operating Humidity Range	10 – 95% RH
Sampling Mode	Pump-suction Mode
Gas Sampling System	Teflon cover Inlet with SS pipe and 6V brushless DC diaphragm pump
PM Sampling System	Inlet with heating system with 10W heater assembly; Inline Water Collector with Inlet and outlet; Inbuilt pump with sensor module Air Purge Controller
Gas Sensor Modules	Each Sensor Module designed with inlet and outlet program
Calibration System	Using NIST Traceable calibration gases
Warranty	12 months warranty
Sensor replacement	Sensor dependent– first year covered by warranty
Enclosure	IP65 weather proof cabinet with high level powder coating
Dimensions	600 x 400 x 190 mm
Weight	<25 Kg
Mounting Hardware	Pole/Stand mounting hardware included

Sensors – CAQM 40

S. No.	Gas Module	Sensor ID	Type	Range	Resolution	Repeatability (ppb)	Linearity	Drift	Operating Temperature °C	Humidity Range % RH	Cross Sensitivity		Expected Life (Years)	Warm up Time (sec)	Response Time (Sec)
											Required	Recommended			
1	O ₂	CE-O ₂	EC	0-30%	0.001%	0.001%	1% of Span	< 15% per year	-10.. +50	5 – 95% RH (non-condensing)	None	None	3 years	No	15
2	O ₃	CE-O ₃	EC	0-5 ppm	1 ppb	2% of reading	1% of Span	< 2% per month	-40 .. + 50	15-90%, non-condensing	Cl ₂	H ₂ S, NO ₂	2 years	No	60
3	SO ₂	CE-SO ₂	EC	0-20 ppm	1 ppb	2% of reading	1% of Span	< 2% per month	-20 .. + 50	15-90%, non-condensing	H ₂ S, NO ₂	None	2 years	No	15
4	NO	CE-NO	EC	0-1 ppm	1 ppb	2% of reading	1% of Span	< 2% per month	-40 .. + 50	15-90%, non-condensing	H ₂ S, HBr, HCl, NO ₂ , O ₃	None	2 years	No	10
5	NO ₂	CE-NO ₂	EC	0-1 ppm	1 ppb	2% of reading	1% of Span	< 2% per month	-40 .. + 50	15-90%, non-condensing	Cl ₂ , H ₂ S, O ₃	None	2 years	No	60
6	CO	CE-CO	EC	0-50 ppm	1 ppb	2% of reading	1% of Span	< 2% per month	-40 .. + 50	15-90%, non-condensing	H ₂ , H ₂ S, NO, NO ₂ , SO ₂	None	2 years	No	50
7	CO ₂	CE-CO ₂	IR	0-5%	0.001%	2% of reading	0.2% of Reading	< 2% per month	-20 .. + 55	0 – 95% RH (non-condensing)	None	None	3 years	30 mins	20
8	H ₂ S	CE-H ₂ S	EC	0-10 ppm	1 ppb	2% of reading	1% of Span	< 2% per month	-40 .. + 50	15-90%, non-condensing	Methyl Mercaptan, Tert-Butyl Mercaptan	CO	2 years	None	35
9	NH ₃	CE-NH ₃	EC	0-50 ppm	1 ppb	3% of reading	5% of Span	< 5% per 6 months	-10.. +50	15-90%, non-condensing	Cl ₂ , H ₂ S, NO ₂ , SO ₂	NO	2 years	None	35
10	TVOC	CE-TVOC	PID	0-40 ppm	1 ppb	2% of reading	< 2% of Span	< 2% per month	-40 .. + 55	0-99%, non-condensing	-	-	5 years (lamp 1 year)	-	3
11	CH ₄	CE-CH ₄	MOS	500 - 10.000 ppm	1 ppm	2% of reading	5% of Span	< 2% per month	-40 .. + 70	15-90%, non-condensing	H ₂	None	2 years	4 mins	35
12	TEMP	CE-TEMP	Semi	-40 .. + 125 °C	0.01 °C	0.15 °C	+/- 0.1 C in range 20-60 °C	0.03 °C / year	-40 .. +125	0-100%, non-condensing	None	None	3 years	No	> 2
13	RH	CE-RH	Semi	0-100%	0.01%	0.15% RH	+/- 0.15% RH in range 0-80% RH	0.25% RH / year	-40 .. +125	0-100%, non-condensing	None	None	3 years	No	> 8
14	PM (2.5, 10)	CE-PM	Laser Scatter	0-1000 ug / m3	0.1	3% of reading	+/- 10% for PM1/PM2.5 and +/- 25% for PM4/PM10	±1.25 ug/m3 / year for Range 0-100 ug/m3 ±1.25 %m.v / Year for range 100 - 1000 ug/m3	-10.. +60	0-95%, non-condensing	None	None	2 year in continuous mode	30	10
15	TSP	CE-TSP	Laser Scatter	0-20,000 ug / m3	1	3% of reading	±20% and ±30µg/m3	-	-10.. +50	15-70%, non-condensing	None	None	2 year in continuous mode	No	6
16	WIND SPEED	CE-WS	Electro	0-70 m/s	0.1	0.1	0.1	-	-20.. +60	0-100%, non-condensing	None	None	-	No	0.5
17	WIND DIRECTION	CE-WD	Electro	0-360 degree	0.1	0.1	1	-	-40.. +75	0-100%, non-condensing	None	None	-	No	
18	PRESSURE	CE-P	Silicone	300 - 1200 mbar	0.01 mbar	-	+/- 4 mbar in temperature range -20 .. + 85 C	2 mbar/year	-20.. +85	0-100%, non-condensing	None	None	10 years	No	< 1
19	RAIN GAUGE	CE-RG	Bucket	0.01 - 4 mm/min	0.2 mm	-	+/- 3%	-	-10.. +50	0-95%, non-condensing	None	None	5 years	N/A	N/A