## **Environmental Dust Monitors Comparison Chart**

	oeroaudiii DUST SENTRY	OPPOSIDE SENTRY PRO	aimet Aimeter DX		CONTRACTOR OF THE PARTY OF THE
	Dust Sentry	<b>Dust Sentry Pro</b>	AirMetER-DX	ES-642	DustTrak 8530
Sensor Type	Nephelometer	Optical Particle Counter	Optical Particle Counter	Nephelometer	Laser Photometer
Measures	Single PM <sub>1</sub> , PM <sub>2.5</sub> , PM <sub>10</sub> or TSP	Multiple PM <sub>1</sub> , PM <sub>2.5</sub> , PM <sub>10</sub> , TSP	Dual PM <sub>2.5</sub> , PM <sub>10</sub> with TSP option	Single PM <sub>1</sub> , PM <sub>2.5</sub> , PM <sub>10</sub> or TSP	Single/multiple $PM_{1}$ , $PM_{2.5}$ , $PM_{10}$ , $TSP$
Range	0–60,000μg/m³	PM <sub>1</sub> 200μg/m³ PM <sub>2.5</sub> 2000μg/m³ PM <sub>10</sub> 5000μg/m³ TSP 5000μg/m³	PM <sub>2.5</sub> 0.01–1999.9μg/m³ PM <sub>10</sub> 0.01–2999.9μg/m³	0–100,000μg/m³	1–400,000μg/m³
Accuracy	$<\pm(2\mu g/m^3 + 5\% \text{ of reading})$	<±(5µg/m³ + 15% of reading)	$\pm (8\mu g/m^3 + 10\% \text{ of reading})$	±5% traceable standard with 0.6μm PSL	±0.1% of reading or 1µg/m³, whichever is greater
Data	Aeroqual Cloud (annual subscription)	Aeroqual Cloud (annual subscription)	Air-Met LiveSense (6 monthly subscription)	Air-Met LiveSense (6 monthly subscription)	TSI Netronix
Certifications	MCERTS/SLAQMD	MCERTS/SLAQMD	N/A	N/A	N/A
Accessories	Noise, gas, tripod, solar, gravimetric filter & more	Noise, gas, tripod, solar, gravimetric filter & more	Gas, weather, tripod, solar & more	Noise, gas, tripod, solar & more	Enclosure, heat shield, solar, gravimetric filter & more



## **Instrument Service Requirements**

	Dust Sentry	Dust Sentry Pro	AirMetER-DX	ES-642	DustTrak 8530
Calibration	Duot Gonta y	Dust Gondy 110	Allioteitea	LOTA	Dustiiuk 5555
Interval	2 years	1 year	1 year	2 years	1 year
Filter Replacement	3 months	3 months	N/A	1 year	3 months
Flow Rate Check	1 month	1 month	N/A	1 month	1 month
Cyclone/Inlet Clean	1 month	1 month	3 months	1 month	1 month
On-Site Serviceable	Yes	Yes	Yes	Yes	Yes
Maintenance Cost (annual)	\$\$\$\$	\$\$\$\$	\$	\$\$\$	\$\$
Maintenance Cost (4 years)	\$\$\$\$\$	\$\$\$\$\$	\$\$	\$\$\$\$	\$\$\$\$

