

TROLEX

ONE LIFE.  
PROTECT IT.

XXD1+

PERSONAL  
DUST  
MONITOR



We believe that simple, accurate, real-time dust monitoring should be available to every worker who needs it.

**Without exception.**

XXD1+ – an incredibly compact, lightweight and affordable real-time dust monitor that is changing the way we fight respiratory diseases in the workplace. No filters, no pumps, no tubes, and no replaceable parts.

XXD1+ gives you instant alarms for fully customisable STEL and TWA measurements for PM1, PM2.5, PM4.25 and PM10.

¼ of the weight of other dust monitors on the market



Truly wearable:  
115 x 68 x 28mm



Low maintenance



Bluetooth enabled



Real-time data analysis through **BreatheLITE** and **BreatheMOBILE** software



# SPECIFICATION

<b>Sensing technology</b>	OPC light-scatter photometer
<b>Particulate measurement</b>	0.1 µm to 10 µm (PM1, PM2.5, PM4.25, PM10)
<b>Particle count accuracy</b>	±10%
<b>Operating temperature</b>	
Optimum performance	10 °C to 40 °C
Maximum performance	-10 °C to 50 °C
<b>Ingress protection</b>	Main enclosure: IPX4 Particle flow path: IP4X
<b>Weight</b>	145 g
<b>Connectivity</b>	<b>BreatheLITE</b> PC application <b>BreatheMOBILE</b> application
<b>User options</b>	STEL and TWA alarm setpoints Latching alarms Particulate measurement
<b>Operating range</b>	Up to ~150 mg/m <sup>3</sup>
<b>Units of measurement</b>	µg/m <sup>3</sup> – Logged on device µg/m <sup>3</sup> or mg/m <sup>3</sup> – <b>BreatheLITE</b> application
<b>Sampling interval</b>	Custom 1 second intervals (default 10 seconds)
<b>Flow rate</b>	0.1 L/min
<b>User interface/alarms</b>	Visual icon illumination (STEL, TWA, battery indication) Audible (85 dB) Vibration alert
<b>Self-test</b>	Sensor hardware, circuitry and battery test on activation 'Push to test' during operation
<b>Response test</b>	Custom particle compliance test
<b>Battery run time</b>	16 hours (full health at ambient)
<b>Charging time</b>	0% to 90%: 2 hours 0% to 100%: 3 hours
<b>Memory capacity</b>	1 GB (6 months data logging at 10 second intervals)



## Safety Inc.

119 Foster Street, Bldg #6  
Peabody, MA 01960  
esafetyinc.com  
sales@esafetyinc.com  
978.532.7330