

COMMONWEALTH of PENNSYLVANIA

DEPARTMENT of ENVIRONMENTAL PROTECTION

Division of Air Quality Monitoring

12th Floor

Rachel Carson State Office Building

P.O. Box 8468

Harrisburg, PA 17105-8468

Specifications for High Range Ceilometer

NO SUBSTITUTION PROCUREMENT

Model#	Specifications
Vaisala CL51 High Range Ceilometer	<p data-bbox="524 688 862 720"><u>User Defined Configurations</u></p> <p data-bbox="524 722 1192 753">Fully automatic 24/7 operation in all weather conditions</p> <p data-bbox="524 756 834 787">Detection of Cirrus Clouds</p> <p data-bbox="524 789 776 821">Power: 100 - 115VAC</p> <p data-bbox="524 823 889 854">Back-up Battery: Internal, 2 Ah</p> <p data-bbox="524 856 854 888">Operating Range: -55 - 60°C</p> <p data-bbox="524 936 688 968"><u>Specifications</u></p> <ul data-bbox="573 970 1393 1835" style="list-style-type: none"><li data-bbox="573 970 732 1001">• Technical<ul data-bbox="670 1003 1393 1465" style="list-style-type: none"><li data-bbox="670 1003 964 1035">○ Wavelength: 910 nm<li data-bbox="670 1037 1166 1068">○ Second-Generation Single Lens Optics<li data-bbox="670 1071 948 1102">○ Laser: InGaAs diode<li data-bbox="670 1104 1146 1136">○ Cloud Reporting Range: 0 - 43,000 ft<li data-bbox="670 1138 1187 1169">○ Backscatter Profiling Range: 0- 49,200 ft<li data-bbox="670 1171 1297 1203">○ Reporting Resolution: 10m/30 ft, units selectable<li data-bbox="670 1205 1393 1236">○ Distance Measurement Accuracy: Greater of ±1% or ±5m<li data-bbox="670 1239 1089 1270">○ Temperature Range: -55 – 60°C<li data-bbox="670 1272 997 1304">○ Humidity: 0 to 100% RH<li data-bbox="670 1306 935 1337">○ Wind: 0 to 55 m/s<li data-bbox="670 1339 1175 1465">○ Vibration: Lloyds Register/IEC60068-2-6<ul data-bbox="849 1398 1078 1465" style="list-style-type: none"><li data-bbox="849 1398 1078 1430">5-13.2 Hz, ±1.0 mm<li data-bbox="849 1432 1078 1465">13.2 – 100 Hz, ±0.7 g<li data-bbox="573 1472 1167 1503">• New System Installation Perpetual SW License<li data-bbox="573 1505 1143 1537">• Air Quality Package with PC and Accessories<li data-bbox="573 1539 797 1570">• LAN (Ethernet)<li data-bbox="573 1572 930 1604">• Standard Delivery Packing<li data-bbox="573 1606 906 1638">• CL51 Standard Software<li data-bbox="573 1640 842 1671">• BLView™ Software<li data-bbox="573 1673 899 1705">• Product manuals on CD<li data-bbox="573 1707 980 1738">• Programmable reporting cycle<li data-bbox="573 1740 846 1772">• One-year warranty<li data-bbox="573 1774 932 1806">• Lifetime technical support