

PLUMECAST®

RELIABLE ANALYSIS OF AIRBORNE DUST AND ODOUR

An invaluable tool for analysing dust and odour incidents or real-time management of risk sites



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Benefits

The most accurate and instant predictions of risk areas.

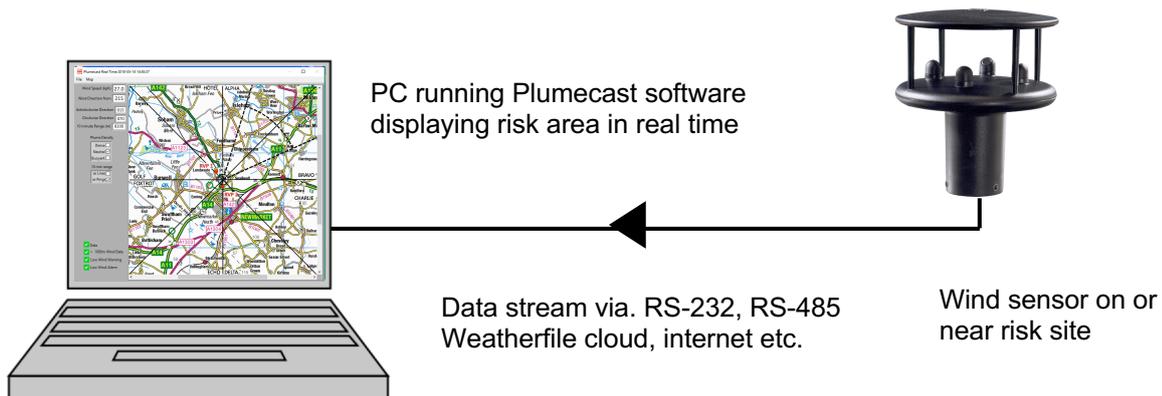
Highly accurate post-analysis of events from recorded data.

How it works

The concept is simple. PlumeCast is a combination of software running on a PC and actual wind sensor data. Using actual local data, including turbulence, is key. The PC runs an atmospheric dispersion model updated every second with real wind data. It then displays the area at risk from a release and for a real event also displays the calculated location of an airborne plume. Using modern anemometers allows turbulence characteristics to be measured directly rather than estimated. This makes dispersion modelling much more accurate as well as allowing real-time information.

Real time decision-making applications

PlumeCast software can take wind sensor data in real-time and use it to give an accurate indication of where any release might go. Site operators can use this operationally when planning activities that could result in a release.



Analysing past events

The Plumecast model can be run on suitable recorded wind data collected previously. The Plumecast analysis is a powerful tool for establishing if nuisance from dust or odour is possible at a given receptor site.

Using an actual run of wind gives it great credibility.

Plumecast can be run either on a known or suspected source location or based on a known receptor site. In the latter case it will identify a sector within which the source must be located.

Plumecast itself creates a continuous archive of raw and processed data that can also be used to analyse past events. It will take the actual wind data from or near to a source or receptor over a set period and calculate where any material released would have gone over a particular time.

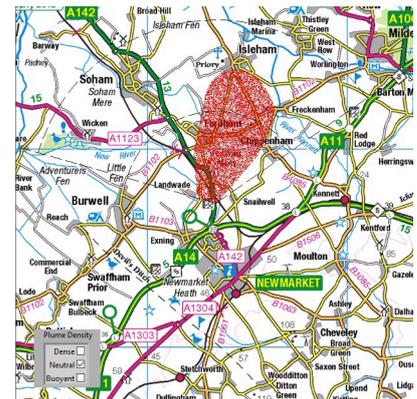
Plumecast runs on Windows 10 or Windows 11

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2024-08-15