

Do you **know** how clean the air is in your immediate vicinity?

Particulates can affect your health. That's why the maximum concentration is laid down in regulations. But even at concentrations below these levels, particulates can affect your health. The CAIREBox™ can help determine what the impact of agriculture, construction work, traffic or other industries and activities is on air quality and especially whether the control measures are effective or not. The CAIREBox™ network can be used to monitor concentration levels (at the company's boundaries) and sources via a network-connected distribution model. You can view the concentrations and emissions of particulates online and get a reading of the sources. Automatic notifications and alerts can also be generated for exceedances or the threat of these. And, in addition, the CAIREBox™ can be fitted with other sensors than for particulates. There are sensors available for nitrogen dioxide, ozone and, in the near future, for soot.



We CAIRE
Make policy smarter, the
air cleaner and the living
environment healthier.



Measuring air quality together with the CAIREBox™

Particulate measurements at industrial sites, business parks, stables, urban areas or along a main road: with the CAIREBox™ data subscription, we provide a complete measurement network, free of worries, with concentration levels and source monitoring adapted to the customer's specific demands. The data is available online via an internet browser. The history and reports can also be accessed in this way. If so desired, you will receive automatic notifications and alerts in the event of anomalies. This means that others in the area can be informed properly and shown that air quality is a priority. The data can be integrated and displayed in apps, for example 'the cleanest cycle route' or 'smoke detected', etc. The alert function allows you to take the necessary action in the event of anomalies. And when steps have been taken to improve air quality, you can use the CAIREBox™ network to measure the results and to substantiate these to licensing authorities, for example.

ECN's CAIRE measurement technology

ECN has years of experience in developing high-quality sensor technology for application in the open air. This technology is now available to the professional market through the CAIREBox™, the CAIRECube™ and the CAIREHome™.



CAIREBox™ standard features

- Particulate sensor PM10, PM2.5 and PM1
- Temperature sensor
- Relative humidity sensor
- GPS location determination
- Back-up battery (>18 hours)

Additional options

- Nitrogen dioxide sensor (NO₂)
- Ozone sensor (O₃)

Particulate Monitoring Service

- CAIREBox™ rental
- Advice on measurement points (location)
- Data processing including models and bespoke alerting
- Access to web interface
- Service and regular maintenance
- Replacement of components due to normal use and wear and tear
- Software maintenance and updates
- Service desk for disruptions and questions
- Breakdown assistance within 48 hours (Mon-Fri)

Additional options

- Reports
 - Number of exceedances
 - Average daily emission
 - Concentration analysis
- Training on the functioning and operation of the system
- Source determination (depending on type of network)

For more information go to www.caire.nl, call +31 88-515 4661 or send a mail to sales@caire.nl