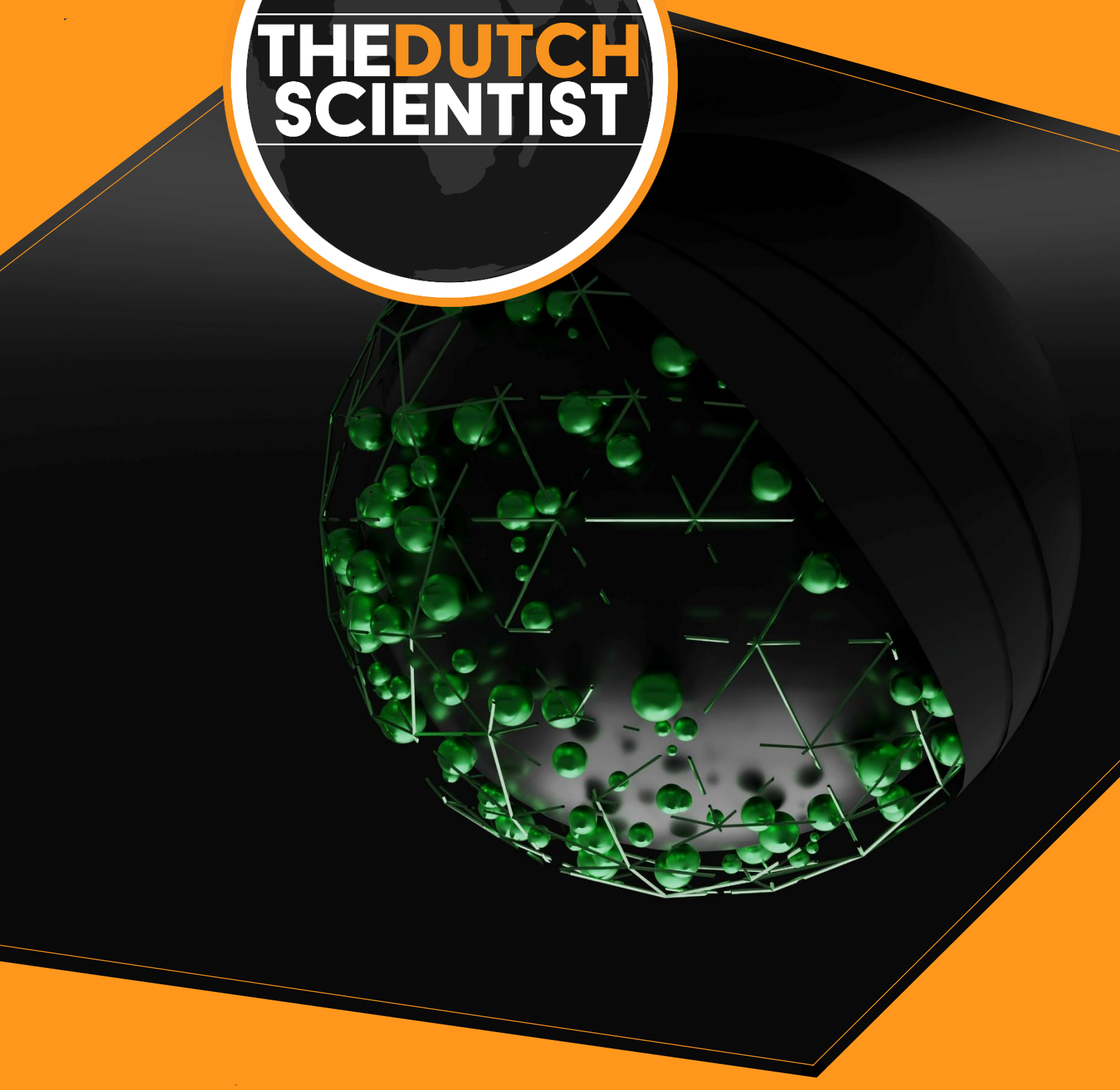
product overview

THE DUTCH SCIENTIST



scientific equipment for climate research, industrial measurements & air quality analysis

Greenhouse gas analyzers

High precision concentration analyzers (CRDS technology) for the measurement of greenhouse gases in an atmospheric background at parts-per-billion (ppb) sensitivity with negligible drift.

molecules : CO_2, CH_4, N_2O, H_2O (+CO & NH_3 as part of GHG analyzer)
applications : air quality, atmospheric science, emission monitoring, ecology, agriculture & soil science
supplier(s) : Picarro

Trace gas analyzers

Real-time, high precision gas analyzers (CRDS or PTR-TOF technology) for the analysis of (toxic) trace gases with parts-per trillion (ppt) sensitivity for the use of safety & compliance analysis in a room or the environment.

molecules : NH_3, CH_4, C_2H_2, C_2H_4, C_2H_4O, H_2S, HF, H_2CO, H_2O_2, HCl, VOC's
applications : air quality, pharmaceutical, petrochemical, emission monitoring
supplier(s) : Picarro, Ionicon

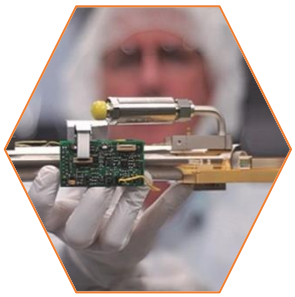
Air quality analyzers

Real-time, high precision, compact and robust gas analyzers (ICAD technology) and open-path remote sensing instruments (DOAS technology) for the measurement of nitrogen oxides (NO_x, NO_2, NO), HONO and other air pollutants such as SO_2, O_3 and H_2CO for air quality monitoring.

molecules : NO_2, NO, SO_2, O_3, H_2CO, H_2O, HONO, BrO, ClO_2
applications : air quality monitoring (in- & outdoor), ground-level validation of satellite remote sensing, mobile emission measurements of vehicles and ships
supplier(s) : Airyx, Picarro

PICARRO UGT The Solutionists Airyx IONICON ensense

Isotopic analyzers



High precision isotope analyzers to measure and quantify stable isotope ratios resolving biochemical processes encoded in your sample.

molecules : $\delta^{13}C$ for CO_2 and CH_4, $\delta^{18}O$, δD and $\delta^{17}O$ for H_2O
application(s) : atmospheric science, agriculture, soil science, ecology, hydrology, oceanography, paleoclimatology, food & beverage, petrochemical
supplier(s) : Picarro

Soil flux chambers & sensors

Gas monitoring instruments, such as automatic soil flux chambers, CO_2 sensors (Forced diffusion technology) to observe different vegetation types and measure specific ecosystem processes, such as soil respiration and net ecosystem exchange.

molecules : depending on the analyzer for flux chamber use, CO_2 for FD sensor
applications : agriculture & soil science, measuring net ecosystem exchange (NEE), partitioning NEE
supplier(s) : Eosense

Lysimeters and ecotrons

Delineated soil columns for laboratory or field use to determine water balance variables AND experimental units (ecotron) for the comprehensive study of ecosystem functions in the soil-plant-atmosphere continuum under controlled boundary conditions ; with a broad range of (meteorological) sensors.

applications : agriculture & soil science, ecology & plant physiology, hydrology
supplier(s) : Umwelt Geräte Technik (UGT)

PICARRO UGT The Solutionists AirYX IONICON eosense

THE DUTCH SCIENTIST

The Dutch Scientist is the local (sales) distributor in the Nordics, Benelux, UK & Ireland for scientific & industrial instrumentation used to study/measure climate change effects as well as monitoring health & product safety.

The Dutch Scientist
Kardinaal van Rossumplein 11
5211 RV 's-Hertogenbosch

+31 (0)6 2943 7116

info@thedutchscientist.com
www.thedutchscientist.com

follow us