Nasal Ranger® Field Olfactometer
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The Nasal Ranger® is a portable odour measuring device that allows users to quantify odour strength in nearly any location or circumstance. This essential tool offers an innovative, easy-to-use alternative to guessing at odour strength. Now, facility operators, regulators and local residents can conduct odour monitoring, regulation, enforcement and documentation in the field. The Nasal Ranger® goes beyond traditional estimation methods, easily measuring odour strength at specific locations surrounding a facility and negates the need for laboratory analysis.

Nasal Ranger® Applications

The Nasal Ranger® applications are endless including;

- agricultural
- municipal operations:
  * waste water treatment
  * landfills
  * composting
- manufacturing
  * perfumeries
  * Chemical / paint factories
- and much more.

Field Olfactometry

Measuring odour strength is crucial for determining specific odour sources, verifying complaints, monitoring daily industrial operations and documenting specific odour episodes.

With the Nasal Ranger® you can:

- Monitor daily operations
- Evaluate odour mitigation methods
- Create credible, defensive evidence
- Determine and monitor compliance
- Investigate odour control effectiveness
- Verify odour dispersion modelling
- Determine specific odour sources
- Verify odour complaints
How the Nasal Ranger® Works

The Nasal Ranger® provides a precise odour strength measurement that is consistent from place to place, facility to facility and user to user. It takes the subjectivity out of odour measurement and provides a universal standard for personnel to document odour strength in the field. The Nasal Ranger® provides a cost-effective method to confidently measure odours.

Dilution–to-Threshold

Using the Nasal Ranger® is a reliable way to quantify odour strength in terms of ‘Dilution-to-Threshold’ (D/T) ratios. The D/T measurement is the most common method of measuring odours. This allows experts to quantity odours on a commonly recognised scale.

To make a D/T measurement, carbon-filtered air is mixed with specific volumes of odorous ambient air. The D/T ratio is a measure of the number of dilutions needed to take the odorous air to its threshold.

Nasal Ranger® Training

A focused Nasal Ranger® training course is available through Crestwood Environmental’s ‘Odour School’. This complete training programme gives Nasal Ranger® users extensive knowledge and experience with its various monitoring and measuring capabilities.

Calibrated for Accuracy

Inhalation (sniff) rates vary from user to user, the Nasal Ranger® includes a calibrated flow sensor to increase measurement consistency. When in use, the flow sensor assures users that ‘sniff rate reading’ is at the inhalation target.

Each Nasal Ranger® comes with a calibration certificate to guarantee accuracy.
Nasal Ranger® Accessories

Nasal Mask
Teflon coated, replaceable Nasal Mask is ergonomically designed to fit your nose comfortably. Check valves allow comfortable breathing through the mask.

Comfort Seal
The Comfort Seal is a disposable foam seal designed to ensure comfort of the Nasal Mask.

Mask Wipes
Individual isopropyl alcohol wipes are used to clean Nasal Masks between uses.

Universal Odour-Filter Cartridges
The replaceable odour-filter cartridges contain a proprietary blend of granular activated carbon, which is designed to remove odours from the ambient air to create the odour-free dilution air. Individually wrapped pairs of replacement cartridges attach easily to the Nasal Ranger®.

High D/T Dial
An alternate orifice dial allows you to expand your measurement capabilities with D/T’s of 60, 100, 200, 300, 400 and 500.

Odour Sensitivity Kit
Originally designed for physicians to measure the sense of smell, this kit has been adapted for use in the olfactometry field to measure a user’s sensitivity and to provide measurable proof of a user’s appropriateness for odour detection tasks.

Get in touch today to learn more about the Nasal Ranger®...