

Odour measuring

In-field odour measurement



Scentroid SM100

Product profile

Scentroid SM100 is the world's first in-field odour measuring device that allows users to accurately quantify ambient odour strength. This revolutionary device offers an easy-to-use and cost effective alternative to guessing at odour strength or using expensive odour measuring laboratories.

Capabilities

The SM100 can conduct odour measurements from:

- Ambient air without any additional sampling equipment
- Directly from smoke stacks or filter inlets
- Flux chamber
- Air samples stored in Tedlar bags

Use the SM100 to:

- Conduct daily odour emission assessment
- Determine odour mitigation effectiveness over time
- Monitor emission compliance and conduct N-butanol screening

Accuracy

The SM100 is an olfactometer with an unprecedented accuracy:

- Selectable dilution range from 2 to 30,000 OU
- Meets EN13725 and ASTM E679 for olfactometer design
- Keep noses sensitive even in the harshest ambient odours
- Constant presentation air flow (not dependant on Sniff Rate)
- Odourless diluting air from compressed air tanks

Ease-of-use

1. Wear the PTFE facemask and the portable compressed air tank.
2. Open the valve to purge nose with odourless air.
3. Slowly open the sliding valve to increase the concentration until the odour becomes detectable.
4. Read from the valve position indicator the sample strength (dilution to threshold or OU).

How it works

The SM100 draws a sample of ambient air via venturi pump and dilutes it using fresh odourless air from a compressed air tank. Operator uses an adjustable sliding valve to control the ratio of fresh to ambient air.



Comparison to Full Scale Labs

Sample	Lab Results (OU)	SM110C Results (OU)
1	116	94
2	108	164
3	139	131
4	201	219
5	1846	1441

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Specifications

Manufacturer	IDES CANADA INC
Model	SM100
Air Supply Capacity	15 min
# of samples per tank refill samples per tank refill	10-15
Dilution Range	2 - 30,000 (2 ¹⁵)
Dilution Principle	Stainless Steel Eductor
Number of Dilution Steps	15 (adjustable range)
Selectable Ranges	2-101; 4-678; 44-656; 2-3600; 2000-30,000
Pres. Flow Rate (l/min)	20
Presentation Face Velocity (m/s)	0.3
Face Mask	Half-face PTFE
Wetted Material	Stainless Steel and PTFE
Tank Material	Carbon Fibre
Dimensions (in)	16x6x6
Weight Kg/(lb)	3.5 (8)

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