

# SCENTROID

FUTURE OF  
SENSORY  
TECHNOLOGY

## SM100

IN-FIELD  
ODOUR  
MEASUREMENT



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# SM100

## PRODUCT SPECIFICATIONS



### Accurate In-Field Odour Measurements!

Scentroid's SM100 is the world's only in-field odour measuring device that allows users to accurately quantify ambient odour strength in OU/m<sup>3</sup>. This revolutionary device offers an easy-to-use and cost effective alternative to estimating odour strength or using expensive odour measuring laboratories. Plus, using the SM100 helps to avoid sample degradation caused by shipping (time, temperature, and pressure) to the nearest lab!



**Air Supply Capability**  
20 minutes per tank of air, allowing for 15-20 samples per tank



**Dilution Range**  
2 - 30,000, using 15 dilution steps (adjustable)



**Accuracy**  
Exceptional accuracy, meeting standards EN13725 and ASTM E679 for olfactometer design



**Light and Portable Design**  
The reduced size and weight of the SM100 ensure that you can take it on any odour adventure!



**On-Site Package**  
With an additional on-site package, you'll receive all 5 calibration plates, a 2<sup>nd</sup> air tank, durable carrying case, fill station, and a sample port adaptor



**Upgrade Available!**  
Ability to upgrade to the SM100i removing the manual adjustment of dilution steps.



**Unparalleled Reliability**  
All parts have been meticulously tested using Scentroid's iso9001 certified quality management systems, ensuring years of service.



**Dimensions / Weight**  
16 x 6 x 6  
8lbs



Each calibration plate is thoroughly tested to ensure accuracy.

### Easy to Use!

The SM100 draws a sample of ambient air via venturi pump and dilutes it using fresh odourless air from a compressed air tank. The operator uses an adjustable sliding valve to control the ratio of fresh to ambient air, which is then fed through a sliding valve into the PTFE face mask. The valve position indicator displays the sample strength (Dilution to Threshold or OU). The SM100 requires no sample bags, no filters to change, no pumps or other moving parts to maintain. An instrument you can rely on!

### Comparison to Laboratory Olfactometer:

Sample	Lab Results (OU)	SM100C Results (OU)
1	116	94
2	108	164
3	139	131
4	201	219
5	1846	1441

Comparative study between SM100 and EN13725 odour laboratory

### Use the SM100 to...

- Perform odour assessments and identify sources
- Determine odour mitigation effectiveness
- Monitor emission compliance and conduct N-butanol screening

### Conduct odour measurements from...

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

