

SCENTROID

FUTURE OF
SENSORY
TECHNOLOGY

SM100i

INTELLIGENT
IN-FIELD
ODOUR
MEASUREMENT



SM100i

PRODUCT SPECIFICATIONS

Next Evolution of Personal Olfactometry

This SM100i can conduct a full odour analysis in full accordance to the international EN13725 standard. The SM100i can analyze from a sample bag or be deployed in the field for direct olfactometry and ambient odour measurement. In addition to odour concentration (in OU) the SM100i with the use of the wearable OdoTracker can also automatically record Ammonia (NH_x) and Hydrogen Sulphide (H₂S) in real-time.



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 (based off of calibration plate)



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



Light and Portable Design
The reduced size and weight of the SM100i ensure that you can take it on any odour adventure!



The Full Package!
You'll receive a tablet, water proof case, face mask, back pack, wind meter, fill station, 2 air tanks, sniffing port, 3x chargers, and all 5 calibration plates!



Sample Input Port
Connect the SM100i directly to a stack, flux chamber, wind tunnel, static hood, or any source sampler



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



user-friendly interface!



Each calibration plate is thoroughly tested to ensure accuracy.

Easy to Use!

The SM100i draws a sample of ambient air via venturi pump and dilutes it using fresh odourless air from a compressed air tank. The SM100i takes out all the guesswork from personal olfactometry. This is done through automatically screening panellists and conducting a YES/NO test mode to determine accurate odour concentration and hedonic tones. The SM100i requires no sample bags, no filters to change, no pumps or other moving parts to maintain. An instrument you can rely on!

The full package!



Comparison to Lab. Olfactometer:

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

Use the SM100i 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