

## **Air-Entrainment Meter** **Test content: 5 litres**

For measuring the air content of fresh concrete  
in accordance with DIN EN 12350-7, issue no. 2009-08

**New development:  
Now 7 kg lighter!**

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## Newly developed 5-litre air-entrainment meter for drastic reduction of instrument weight during work, with the same testing functions as with an old 8-litre meter

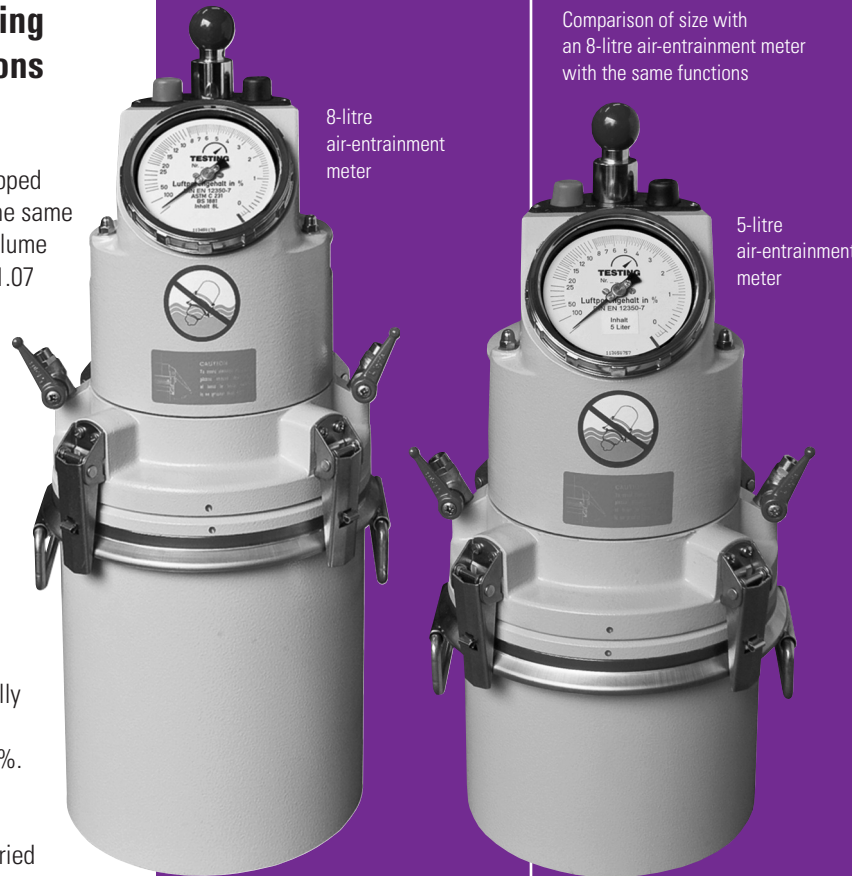
On the basis of the relevant standards, we have developed a completely new air-entrainment meter. It performs the same tests as with an old 8-litre meter, but with a testing volume of 5 litres and with a diameter-height ratio of approx. 1.07 (in accordance with standards).

**Now 7 kg lighter!**  
Weight reduction of the testing  
sample by approx. 37.5 %

The net weight of the concrete to be tested is drastically reduced from approx. 18.4 kg to approx. 11.5 kg. This is a reduction of the tested mass by approx. 37.5 %.

With reference to the total gross mass of the new 5-litre meter, filled with concrete, the weight to be carried now falls to approx. 21.5 kg. In practical application, this means that the air-entrainment meter is approx. 7 kg lighter – with absolutely the same testing functions.

This meter therefore makes a long-overdue contribution to modern health and safety improvements, in occupational physiology as well, for purposes of construction material testing. It offers an enormous relief in work effort.



8-litre  
air-entrainment  
meter

5-litre  
air-entrainment  
meter

2.0332

Comparison of size with  
an 8-litre air-entrainment meter  
with the same functions

### Air-entrainment meter Test content: 5 litres

- Test volume: 5 litres
- Testing method: pressure equalization
- Measuring range: 0 ... 10 vol.-%
- Internal diam. of the test pot: 190 mm
- Internal height of the test pot: 178 mm
- Diameter/height ratio: approx. 1.07
- Net weight of meter: approx. 10 kg
- Net weight, incl. test mass: approx. 21.5 kg

### Technical features

- Direct reading of the air entrainment in vol.-%
- Hand pump for fast pressure build-up
- Pushbuttons for simple testing
- Pressure gauge integrated in the top of the meter
- Pressure-gauge diameter: 100 mm
- Pressure-gauge precision: Class 1.0
- Fast-action clamps between test pot and cover
- Ease of handling by considerably reduced weight

### Principle of function

The air content of the mortar or fresh concrete is measured in the calibrated meter according to the pressure-equalization method. The meter has a pressure chamber in which a defined pressure is built up by means of a hand pump. Opening an overflow valve equalizes the pressure in the test pot, which is filled with fresh concrete. The pressure drop in the test pot then shows the amount of air entrained in fresh concrete.



Subject to technical modification without notice. 06/14