

Application Range

Determination of water vapor in air or natural gas.

Mode of Operation

The tube contains a yellow indicating layer. When air or a gas sample are sucked through the tube, the indicating layer changes colour to blue in the presence of water vapor.

Principle of Reaction



Ambient Conditions

- Temperature: 0°C to 30°C
- Atmospheric pressure: for correction of the reading multiply by factor F.

$$F = \frac{1013}{\text{actual atmospheric pressure (hPa)}}$$

Prerequisites

- The tubes may only be used in conjunction with the following Dräger Pumps: accuro, accuro 2000 or Quantimeter 1000. Should other pumps be used, this may result in considerable measurement errors.
- Observe the Instructions for Use of the pump.
- Before each series of measurement, check the pump for leaks with an unopened tube.
- The measured value is applicable only to the place and date of measurement.

Measurement and Evaluation

- 1 Break off both tips of the tube in the tube opener.
 - 2 Insert the tube tightly in the pump. Arrow points towards the pump.
- Measuring range:
3.0 to 60 lbs/mmcf (3 strokes, scale n=3)
- 3 Suck air or gas sample through the tube.
Measuring period: approx. 1.5 minutes.
 - 4 Read the entire length of the blue discoloration.
- Multiply the value by factor F for correction of the atmospheric pressure.
Enter the result in the measurement record.
Relative standard deviation: ±15 to 20%.
 - Observe possible cross sensitivities.
 - Flush the pump with air after operation.

Cross Sensitivities

- There is no interference with the reading by:
1200 ppm NO₂, 6000 ppm SO₂, 2000 ppm ethanol, 2000 ppm acetone.
- In general basic substances may cause plus errors, whereas acid substances may cause minus errors.

Disposal

Avoid skin contact with the tube filling. Contents are corrosive.
Keep out of reach of unauthorized persons. For disposal, observe safety recommendations S 22-27.

Additional Information

The package strip indicates order number, shelf life, storage temperature and serial number. State the serial number for inquiries. Further information with respect to gas analysis with Dräger tubes will be submitted on request.

