Formaldehyde 0.2 - 5 ppm

Measuring Range: 0.2 to 5 ppm (20 °C, 50% r.h.)

Measuring Time:
- approx. 100 seconds at 5 ppm
- approx. 250 seconds at 1 ppm
- approx. 600 seconds at 0.2 ppm
- approx. 450 seconds at 0 ppm

Temperature:
- 10 °C to 30 °C
- 10 °C to 19 °C: +3.3%/°C
- 21 °C to 30 °C: -2.5%/°C
% of measured value over the measurement range.

Correction of Temperature:
- 10 °C to 19 °C: +3.3%/°C
- 21 °C to 30 °C: -2.5%/°C
% of measured value over the measurement range.

Humidity:
- 2 to 12 mg/L (corresp. 10 to 70% r.h. at 20 °C)
- 2 to 8 mg/L: -2%/mg/L
- 10 to 12 mg/L: +4%/mg/L
% of measured value over the measurement range.

Correction of Humidity:
- 2 to 8 mg/L: -2%/mg/L
- 10 to 12 mg/L: +4%/mg/L
% of measured value over the measurement range.

Air Pressure:
- 700 to 1100 hPa

Correction of Air Pressure:
- not necessary

Cross Sensitivity:
- No influence by ≤5 ppm NO₂
- (at 1 ppm HCHO) ≤5 ppm HCl
Following substances are not indicated: 0.5 ppm acrolein, 500 ppm octane, 20 ppm styrene, 10 ppm vinyl acetate. Acetaldehyde is indicated with approx. the factor 8 less than formaldehyde.

Accuracy:
- ±19% of the measured value over the measurement range, e.g.
- ±0.19 ppm at 1 ppm
- ±0.95 ppm at 5 ppm

Reproducibility:
- ±25% (0.2 to 0.9 ppm)
- ±15% (1.0 to 5.0 ppm)
(Standard Deviation)

Measurement with Remote System
Please observe the Instructions for Use of the Remote System.

Flushing Time
For a measurement of 1 ppm formaldehyde in laboratory conditions, a flushing time of 3 minutes was determined.