

Fluorine 0.1/a

Order No. 81 01 491

Application Range

Standard Measuring Range:	0.1 to 2 ppm
Number of Strokes n:	20
Time for Measurement:	approx. 5 min
Standard Deviation:	± 15 to 20 %
Color Change:	white → yellow

Ambient Operating Conditions

Temperature:	10 to 40 °C
Absolute Humidity:	< 10 mg H ₂ O / L

Reaction Principle

- $F_2 + MgCl_2 \rightarrow Cl_2 + Mg F_2$
- $Cl_2 + o\text{-tolidine} \rightarrow \text{yellow reaction product}$

Cross Sensitivity

Nitrogen dioxide, chlorine and chlorine dioxide are indicated, but with different sensitivities.

Extension of the Measuring Range

Using $n = 40$, divide the reading by 2; the measuring range will be 0.05 to 1 ppm.

