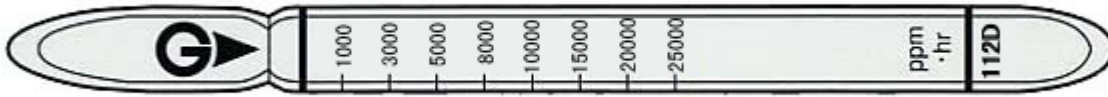


**Ethanol**

**C<sub>2</sub>Humidity  
Corrections<sub>5</sub>OH**

**no.112D**



**Performance**

<b>Measuring Range</b>	100 to 25000 ppm
<b>Sampling Hours</b>	1 to 10 hours
<b>Detecting Limit</b>	0.05 ppm (10 hours)
<b>Color Change</b>	Yellow → Brown
<b>Reaction Principle</b>	Ethanol reduces chromic acid to discolor brown stain. $C_2H_5OH + Cr^{6+}H_2SO_4 \longrightarrow Cr^{3+}$
<b>Coefficient of Variation</b>	15% (for 1000 to 3000 ppm-hr), 10% (for 3000 to 25000 ppm-hr)
<b>Shelf Life</b>	3 Years
<b>Corrections for temperature &amp; humidity</b>	Unnecessary
<b>Store the tubes at cool and dark place.</b>	

**Possible coexisting substances and their interferences (NOTE)**

Substance	Concentration	Interference	Change color by itself
Methanol, Esters	-	No effect	No discoloration
Isopropyl alcohol	1time	Plus error	Discolor brown

**Calibration gas generation**    Static gas dilution method

TLV-TWA	TLV-STEL	Explosive range
1000ppm	-	3.3 to 19%