

# RKI Sensor Specification

**Features:** Fast warm-up time  
Good zero stability  
Quick response time

## Acetic Acid (CH<sub>3</sub>COOH)

**Part Number:** ES-733PX-CH<sub>3</sub>COOH  
**Sensor Application:** EAGLE, Fixed Systems

Technical Specifications			
<b>Measuring Principle</b>	Amperometric 3-electrode sensor	<b>Accuracy</b>	+/- 10 % of reading
<b>Range of Measurement</b>	0 – 30 ppm	<b>Repeatability</b>	+/- 5% of reading
<b>Resolution</b>	1% of full scale	<b>T<sub>90</sub> Response time</b> (20°C, 2 min. exposure)	90 seconds

Operating Conditions			
<b>Temperature Range</b>	-20°C to +45°C	<b>Life Expectancy</b>	2-3 Years
<b>Humidity Range</b>	10-95% RH, Non Condensing	<b>Warranty</b>	1 Year

## Known Gas Interferences

Gas	PPM Gas Applied	Reading
Acetone ((CH <sub>3</sub> ) <sub>2</sub> CO)	1% vol.	0.0
Carbon Dioxide (CO <sub>2</sub> )	2000	8.0
Chlorine (Cl <sub>2</sub> )	1.0	10.0
Ethanol (C <sub>2</sub> H <sub>5</sub> OH)	1% vol.	0.0
Freon 14 (CF <sub>4</sub> )	1% vol.	0.0
Freon 116 (CF <sub>3</sub> -CF <sub>3</sub> )	1% vol.	0.0
Fluorine (F <sub>2</sub> )	5.0	12.0
Hydrogen (H <sub>2</sub> )	5% vol.	-3.0
Hydrogen Chloride (HCl)	10.0	30.0

Gas	PPM Gas Applied	Reading
I.P.A. ((CH <sub>3</sub> ) <sub>2</sub> CHOH)	1% vol.	0.0
Methane (CH <sub>4</sub> )	10% vol.	0.0
Methanol (CH <sub>3</sub> OH)	1% vol.	0.0
Methyl Acetate (CH <sub>3</sub> COOCH <sub>3</sub> )	5,000.0	0.0
n-Butyl Acetate (CH <sub>3</sub> COO(CH <sub>2</sub> ) <sub>3</sub> CH <sub>3</sub> )	5,000.0	0.0
Nitric Oxide (NO)	100.0	0.0
Nitrogen Dioxide (NO <sub>2</sub> )	7.7	3.0
Nitrogen Trifluoride (NF <sub>3</sub> )	50.0	0.0