IntraMicron, Inc.

IntraMicron, Inc.
368 Industry Dr.
Auburn, AL 36832

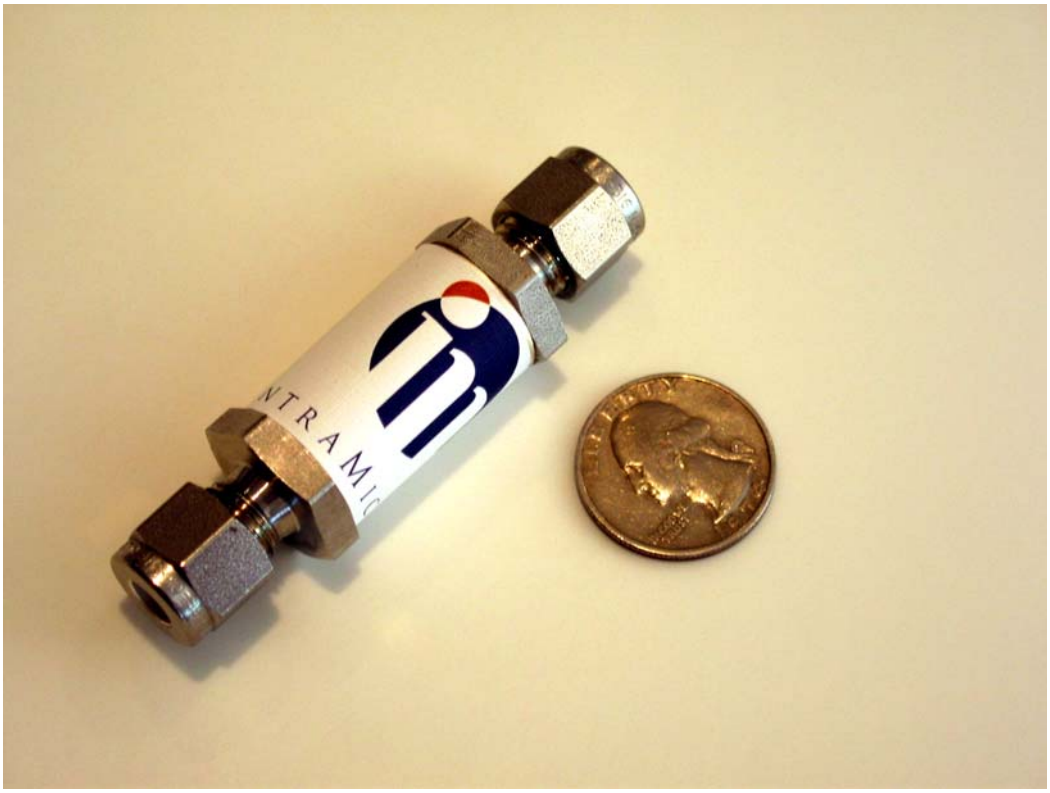
Phone 334-502-2973

Fax 334-502-2974

INTRAMICRON

H_2S Fuel Cell Sorbent Filter

Protect Your Fuel Cell Investment



IntraMicron H_2S Fuel Cell Sorbent Filter

Why Risk Your Fuel Cell Investment?

Protect it with IntraMicron's patented Microfibrous Media Technology by Simply adding this filter inline to your fuel cell's hydrogen supply

Description:

PEM fuel cells must use ultra high purity hydrogen to function at peak efficiency and achieve maximum useful life. Leading fuel cell manufacturers recommend using hydrogen with a purity of 99.99% or greater to realize these goals. Unfortunately hydrogen is "sold separately" and there are few means of ensuring that your fuel source is free from contaminants. A contaminated hydrogen fuel stream can do serious damage to the fuel cell in a short period of time and make waste of your investment without your knowledge. Hydrogen sulfide (H_2S) is a common contaminant in industrial hydrogen that poisons the fuel cell anode catalyst. Because this poisoning mechanism is irreversible, even trace concentrations of H_2S in your hydrogen can over time significantly degrade stack performance. IntraMicron's hydrogen sulfide filter is a simple, easy-to-install filter that operates effectively at low temperature using our own patented and highly efficient microfibrous sorption media technology. Simply place this filter inline between your hydrogen source and your fuel cell to get the necessary protection.

Product Specifications

Materials of Construction	316 stainless steel housing and fittings
Filter Description	Commercial H_2S adsorbent plus proprietary impregnated sintered Nickel fiber composite polishing sorbent
Dimensions	3" L x ¾" W
Connections	¼" Swagelok® inlet and outlet connections
H_2S Standoff Capability	2820 minutes for a 1 kW fuel cell (15 liters H_2 per minute with a 1 ppm H_2S background)
Ultimate Hydrogen Purity	≤ 0.01 ppm H_2S
Adsorption Capacity	≥ 60 mg H_2S