Technical Note

High Technology Sensors

Ez-Track R16 Chemical Compatibility

Originator: Bruce Butler
Business Development Manager

The Ez-Track R16 Liquid Level transducer and floats are available in either 316 stainless steel or PVDF (Kynar). Chemical compatibility is a critical selection criteria when applying these transducers. In many cases the customer will know which of the two materials is compatible with the liquid to be measured. However, prior to the final selection of the transducer, a chemical compatibility with the liquid and probe material should be confirmed.

Fortunately, most of the common chemicals have already been tested for us and are conveniently available on the web. One of the best websites is;

http://www.arozone.com/Chemical/Index.asp

Sample Web Page

ARO Chemical Compatibility Guide

Information compiled from data provided by material suppliers and manufacturers. Compatibility listings are intended as a guide only. We assume no liability for their accuracy or their use. User should test under their own operating conditions to determine suitability of compound & material in the application.

** Select 2 options below to produce a compatibility result.

Material:

Chemical:

Rating:

A = Excellent | B = Good | C = Fair to Poor | D = Not Recommended

X or [Brackets] around a rating letter= no data is available but the ratings are made on the basis of exposure test in similar chemical groups.

Show Results

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** Select 2 options below to produce a compatibility result.

Material: PVDF

Chemical: Sulfuric Acid - (To 10%)

Rating:

A = Excellent | B = Good | C = Fair to Poor | D = Not Recommended

X or [Brackets] around a rating letter= no data is available but the ratings are made on the basis of exposure test in similar chemical groups.

Show Results

Step 1. **Select the probes material (PVDF or 316 Stainless Steel).**

Step 2. **Select the chemical (Note: Concentration may be a factor).**

Step 3. **Chick "Show Results".**

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Web Page Results

Chemical Compatibility Results		
Chemical	**Material**	**Rating**
Alcohol Hexyl (1-Hexanol)	Stainless Steel	A

Start Over

If the chemical compatibility results indicate any rating other than “A”, perform the with the alternate probe material. If neither material returns a result with an “A” rating, refer the application to a Business Development Manager.

A rating of “B” may indicate only minimal corrosion or deterioration to the probe, but the thin walls of the float could be eaten away in as short as 30 days.

An alternative website for chemical compatibility is;

http://www.coleparmer.com/techinfo/ChemComp.asp?from=home