ID-200H Series

2 Wire Loop Powered Interface Detector with HART

SYSTEMS: ID-201H (½ Inch Shaft)
ID-202H (1 ¼ Inch Shaft)
with Integrated HART Communication Capability

Description
The ID-200H Series Interface Detectors are 2 wire 4-20mA loop powered probes used for interface measurement and control in all types of liquid/liquid and vapor/liquid separation processes including emulsions and foam. A wide range of models are available for the control of a variety of process installations such as Tanks, Decanters, Dehydrators, Desalters, Coalescers, etc. The ID-200 Series advanced control capabilities can be used to automate upset responses, antifoam and demulsifier chemical feed systems and eliminate cross-contamination of separating phases.

Operating Range

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emulsion Concentration</td>
<td>0-100% Hydrocarbon/ Water by Volume</td>
</tr>
</tbody>
</table>
| Process Temperature        | Standard: 32°F to 300°F (0°C to 149°C)  
High-Temp: 32°F to 450°F (0°C to 232°C) |
| Ambient Temperature        | -40°F to 185°F (-4°C to 85°C) |
| Pressure Rating            | Up to 3000 PSI |

Materials Of Construction

<table>
<thead>
<tr>
<th>Component</th>
<th>Standard</th>
<th>Optional</th>
</tr>
</thead>
</table>
| Probe           | 316 Stainless Steel, Teflon & Peek  
Optional: Duplex, Hastalloy, Monel (Others available upon request) |
| Seals           | Aflas and Teflon  
Optional: Viton |

Optional Process Connection

<table>
<thead>
<tr>
<th>Connection</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>SH-2&quot;/SS</td>
<td>2&quot; NPT Seal Housing, 316 Stainless Steel</td>
</tr>
<tr>
<td>SH-2&quot;/CS</td>
<td>2&quot; NPT Seal Housing, Carbon Steel</td>
</tr>
<tr>
<td>CF-3/4&quot;/SS</td>
<td>3/4&quot; NPT Compression Fitting, 316 Stainless Steel</td>
</tr>
<tr>
<td>CF-3/4&quot;/CS</td>
<td>3/4&quot; NPT Compression Fitting, Carbon Steel</td>
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<tr>
<td>Flanged Connections</td>
<td>ANSI 150# to 1500#</td>
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</tbody>
</table>

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All Agar Corporation Instruments are covered by one or more of the following U.S. Patents: 4,503,383; 4,774,680; 5,099,697; 5,101,163; 5,101,367; 5,263,363; 5,503,004; 5,551,305; 5,589,642; 5,741,977, RE 36,597. Other patents pending in the USA and other countries.
Model Variations
ID-201:  1/2” shaft  Standard: 48” (4 Ft.)  Minimum: 12” (1 Ft.)  Maximum: 120” (10 Ft.)
ID-202:  For probe lengths greater than 10 feet, sturdier 1-1/4” shaft assemblies from 5 foot sections via threaded connections.

Electrical Rating
ID-201, ID-202 Probe:  Intrinsically Safe: Class 1, Div.1, Groups C & D, T3C (pending)
ATEX:  II 1G Ex ia IIB T4 Ga (-40°C<Ta<+85°C)
ATEX:  II 1G Ex ia IIC T5 Ga (-40°C<Ta<+65°C)
Wiring Connections:  Probe Terminal Block #18 AWG Maximum Diameter
Power Requirements:  12VDC to 30VDC
Current:  3.9mA to 21mA

Output Options
ID-201, ID-202: 4 - 20mA Loop Powered HART

CERTIFICATIONS
CSA-US  Canadian Standards Association/UL Specifications (pending)
ATEX  European Committee for Electrical Standardization
GOST-R  Russian Approval for Hazardous Areas and Accuracy
JRIIS  Japanese Research Institute of Industrial Safety