AGAR ID-200 SERIES
INTERFACE CONCENTRATION DETECTOR SYSTEM

Specifications:

SYSTEMS

ID-201  (½ Inch Shaft)

ID-202  (1 ¼ Inch Shaft)

ID-205  (Cable mounted)

FUNCTION

The ID-200 Series Interface Detectors are used for interface measurement and control in all types of liquid/liquid and vapor/liquid separation processes. A wide range of models, process connections, and output options are available for the control of a wide 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>Standard</th>
<th>High-Temp</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emulsion Concentration</td>
<td>0-100% Hydrocarbon/Water by Volume</td>
<td></td>
</tr>
<tr>
<td>Process Temperature</td>
<td>Standard: 32°F to 300°F (0°C to 149°C)</td>
<td>High-Temp: 301°F to 800°F (149°C to 427°C)</td>
</tr>
<tr>
<td>Ambient Temperature</td>
<td>-40°F to 180°F</td>
<td></td>
</tr>
<tr>
<td>Pressure Rating</td>
<td>Standard: 300 psig (high pressures subject to review)</td>
<td></td>
</tr>
</tbody>
</table>

MATERIALS OF CONSTRUCTION

<table>
<thead>
<tr>
<th>Component</th>
<th>Standard</th>
<th>Optional</th>
</tr>
</thead>
<tbody>
<tr>
<td>Probe</td>
<td>316 Stainless Steel and Teflon</td>
<td>Zirconium, Hastelloy, Monel (Others available on request)</td>
</tr>
<tr>
<td>Seals</td>
<td>Viton (Others i.e., Kalrez and Aflas available on request)</td>
<td></td>
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</tbody>
</table>

OPTIONAL PROCESS CONNECTION

<table>
<thead>
<tr>
<th>Connection</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SH-1&quot;/SS</td>
<td>1&quot; NPT Seal Housing, 316 Stainless Steel</td>
</tr>
<tr>
<td>SH-1&quot;/CS</td>
<td>1&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>
</tr>
<tr>
<td></td>
<td>Flanged Connections: Available on request</td>
</tr>
</tbody>
</table>
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 joints.
ID-205: Shaft replaced by 1/4" cable for suspension of antenna down through tanks, wells, platform legs, caverns, etc.

ELECTRICAL RATING

ID-201, ID-202, ID-205 Probe: Intrinsically Safe CSA: Class 1, Div.1, Groups C & D, T3C
CENELEC:  EEx ia IIB T4 and EEx ia IIC T4
PS-201/Power Supply: 115/240 VAC 50-60 Hz or 12/24 VDC (±20%);
Maximum Power Consumption of 250 Watts
PS-201 Enclosures: Weatherproof (N4X) NEMA 4X
Explosion Proof (N7) NEMA 7 CSA Div.1, Class 1, Groups C&D
Flame-Proof (EEx d) CENELEC EEEx [ia] IIB T4
Wiring Connections: Barrier Terminal Block #18 AWG Maximum Diameter

OUTPUT OPTIONS

ID-201/4-20: Powered 4-20 mA into 400 Ohms Maximum;
4 mA = Oil, or Lowest Water Content
ID-201/RL: Relay Contact 1A; 115V; NO and NC; (SPDT);
Fail Safe On Water or Oil; Adjustable Trip Point
ID-201/RL/4-20: Relay and 4-20mA Options
ID-201/RL/LI: Relay with Local Indicating Lights; Amber = Oil, Blue = Water
ID-201/RL/420/LI/PN: With All Available Options.

CERTIFICATIONS

CSA Canadian Standards Association - #53314
BASEEFA British Approvals Service for Electrical Equipment in Flammable Atmospheres - Ex 89C2219 and Ex 94C2223
CENELEC European Committee for Electrical Standardization
GOST-R Russian Approval for Hazardous Areas and Accuracy - A 0217A
JRIIS Japanese Research Institute of Industrial Safety - #C11735

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