The ID-200 Series Interface Detectors are 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, 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**
- Emulsion Concentration: 0-100% Hydrocarbon/Water by Volume
- 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 131°F
- Pressure Rating: Standard: 300 psig (higher pressures subject to review)

**MATERIALS OF CONSTRUCTION**
- Probe: Standard: 316 Stainless Steel and Teflon
  Optional: Zirconium, Hastalloy, Monel (Others available on request)
- Seals: Standard: Aflas and Teflon
  Optional: Viton

**OPTIONAL PROCESS CONNECTION**
- SH-1'/>SS: 1' NPT Seal Housing, 316 Stainless Steel
- SH-1'/>CS: 1' NPT Seal Housing, Carbon Steel
- CF-3'/>SS: 3'/> NPT Compression Fitting, 316 Stainless Steel
- CF-3'/>CS: 3'/> NPT Compression Fitting, Carbon
- Steel Flanged Connections: Available on request

**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 cable for suspension of antenna down through tanks, wells, platform legs, caverns, etc.
- ID-201, ID-202, ID-205 Probe Intrinsically Safe:
  - Class 1, Div 1, Groups C & D, T3C ATEX: II 1G Ex ia IIB T4(-40°C<Ta<+70°C) II 1G Ex ia IIC T5(-40°C<Ta<+65°C)
  - PS-201/Power Supply 115/240 VAC 50-60 Hz or 12/24 VDC (+20%), Normal Power Consumption 3 Watts Maximum Power Consumption of 250 Watts (including lights)
  - PS-201 Enclosures: Weatherproof (N4X) NEMA 4XExplosion Proof (N7) NEMA 7 Class 1, Div 1, Groups C&D Flame-Proof (N7) NEMA 7 ATEX: II 2G Ex d[ia] IIB T6 (-20°C<Ta<+55°C)
  - Wiring Connections: Barrier Terminal Block #18 AWG Maximum Diameter
- ID-201/420: 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/420: Relay and 4-20mA Options
- ID-201/RL/LI: Relay with Local Indicating Lights; Amber = Oil, Blue = Water
- ID-201/RL/PN: Relay with Pneumatic Output 75 PSI Maximum, 3-Way Explosion Proof Valve

**CSA:** Canadian Standards Association
**ATEX:** European Committee for Electrical Standardization
**GOST-R:** Russian Approval for Hazardous Areas and Accuracy
**JRIIS:** Japanese Research Institute of Industrial Safety

www.hmagrp.com

Email: instrumentation@hmagrp.com

INS-DS-0088 - JUNE 2018