

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

Emulsion Concentration:	0-100% Hydrocarbon/Water by Volume
Process Temperature:	32°F to 450°F (0°C to 230°C) (Temperatures over 300°F [150°C] subject to review)
Ambient Temperature:	-40°F to 180°F
Pressure Rating:	Standard: 300 psig (high pressures subject to review)

MATERIALS OF CONSTRUCTION

Probe:	Standard:	316 Stainless Steel and Teflon
	Optional:	Zirconium, Hastalloy, Monel (Others available on request)
Seals:	Standard:	Viton (Others i.e., Kalrez and Aflas available on request)

OPTIONAL PROCESS CONNECTION

SH-1"/SS:	1" NPT Seal Housing, 316 Stainless Steel
SH-1"/CS:	1" NPT Seal Housing, Carbon Steel
CF-3/4"/SS:	3/4" NPT Compression Fitting, 316 Stainless Steel
CF-3/4"/CS:	3/4" 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 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 EEx d[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/PN:	Relay with Pneumatic Output 75 PSI Maximum; 3-Way Explosion Proof Valve, 12W, CSA and UL Listed; 1/4" NPT Connections, 3/32" Orifices, Manual Override, Exhaust Speed Control.
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

