

AGAR CORPORATION

Process Measurement & Control



ID 200 Series

Interface Concentration Detector System

SYSTEMS: ID-201 (½ Inch Shaft)
ID-202 (1 ¼ Inch Shaft)
ID-205 (Cable mounted)

Description

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 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:	Up to 3000 PSI

Materials Of Construction

Probe:	Standard:	316 Stainless Steel, Teflon & Peek
	Optional:	Duplex, Hastalloy, Monel (Others available on request)
Seals:	Standard:	Aflas and Teflon
	Optional:	Viton

NACE compliant

Optional Process Connection

SH-2"/SS:	2" NPT Seal Housing, 316 Stainless Steel
SH-2"/CS:	2" 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:	ANSI 150# to 1500#






ID-201 Components: Probe, Seal Housing & Power Supply Nema 4/7 Enclosure

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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 five foot sections via threaded connections.			
ID-205:	Shaft replaced by cable for suspension of antenna down through the top of the tanks, wells, platform legs, caverns, etc.			

Electrical Rating

ID-201, ID-202, ID-205 Probe	Intrinsically Safe: Class 1, Div.1, Groups C & D, T3C ATEX:  II 1G EEx ia IIB T4 (-40°C<Ta<+70°C)  II 1G EEx ia IIC T5 (-40°C<Ta<+65°C)
Power Required:	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 4X Explosion Proof (N4/7) NEMA 4/7 Class 1, Div. 1, Groups C&D Flame-Proof (N4/7) NEMA 4/7 ATEX:  II 2G Ex d[ia] IIB T6 (-20°C<Ta<+55°C)
Wiring Connections:	Barrier Terminal Block #18 AWG Maximum Diameter











Standard Output Options

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

CERTIFICATIONS

CSA-US Canadian Standards Association /UL Specifications
ATEX European Committee for Electrical Standardization
GOST-R Russian Approval, ROSTECHNADZOR Safety
JRIIS Japanese Research Institute of Industrial Safety

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