

AGAR CORPORATION

Process Measurement & Control



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

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 185°F (-4°C to 85°C)
Pressure Rating:	Up to 3000 PSI

Materials Of Construction

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

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-201H Components: Probe and Seal Housing

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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 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)  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
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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