

## **SmartLine**

# SLN 700 SmartLine Non-Contact Radar Level Specification

34-SL-03-06, July 2023



### Introduction

Part of the SmartLine® family of products, the SLN 700 is a high performance 80 GHz non-contact radar level transmitter offering high accuracy, stability over a wide range of level applications. SmartLine SLN 700 level transmitters are an ideal solution for demanding process level needs, with easy-to-use and low-maintenance character.

The SmartLine family is also fully tested and compliant with Experion ® PKS, providing the highest level of compatibility assurance and integration capabilities. SmartLine easily meets the most demanding needs for level measurement applications.

### **Best in Class Features:**

- o 80 GHz FMCW technology
- Narrow beam, small blind zone & accurate measurement
- Immunity to temperature, pressure, most obstacles, and dust
- False echo suppression option
- o Easy setup, no dielectric constant dependence
- Small antenna size fits most process: easy to install
- High resolution: better accuracy and process detail
- Measuring range: up to 30 m (liquids) / 120 m (solids)
- Accuracy ±2 mm
- Process Temperature range: -40 to 200 °C
- o Process Pressure range: -1 to 25 bar
- o Operating voltage: 12 to 30 V DC
- Output signal: 4 20 mA & HART®



Figure 1 —SLN700 Non-Contact Radar Level transmitter

### **Description**

The SmartLine 80 GHz Non-Contact Radar Level transmitter utilizes Frequency Modulated Continuous Wave (FMCW) technology which has greater sensitivity and accuracy for level measuring applications.

### Unique Out-of-the-Box, Full User Experience1

The specification of the correct level transmitter for the level measurement is one of the root causes for many common field failure modes. This user experience is enhanced with the unique SmartLine Application and Validation Tool (AVT) found at

https://config.honeywellsmartline.com/. This allows users to specify their tank level application and the options desired for their level transmitter. The AVT intelligently guides the user through the engineering process and electronically captures and documents the choices and inputs.

In addition to serving as engineering documentation, the AVT output also serves as input to the Honeywell order management system, thus ensuring correct input of the transmitter model. The additional advantage is a transmitter with configuration parameters already specified to match the targeted tank application. Errors are eliminated and the engineering effort is preserved from start to finish.

The SmartLine Application and Validation Tool also allows users to collaboratively use and share the active session with any web connected colleague or expert. This interactive, collaborative capability eliminates roadblocks and delays. Users can access resources to help start and finish the engineering task in a single effort. This online tool also dynamically reformats the user interface to display correctly on an IOS or Android<sup>TM</sup> device.

### <sup>1</sup> will be available soon.

### **Diagnostics**

SmartLine transmitters all offer digitally accessible diagnostics which aid in providing advanced warning of possible failure events, minimizing unplanned shutdowns, providing lower overall operational costs

### System Integration

- SmartLine communications protocols all meet the most current published standards for HART<sup>®</sup>
- Integration with Honeywell's Experion<sup>®</sup> PKS offers the following unique advantages.
  - FDM Plant Area Views with Health summaries
  - The SLN series is Experion tested to provide the highest level of compatibility assurance.
- Display modular can be added or removed in the field
- 128 by 64 dot matrix graphics display
- Large PV font format supported. Echo stem plots with Distance to Product and Distance to Interface Configurable screen
- The Display supports English and Chinese languages.

### Unique Indication/Display Options

The SmartLine SLN series level transmitter's modular design accommodates a unique advanced graphics LCD display.



Figure 2: Advanced Graphics LCD Display Features

### Modular Design

To help contain maintenance and inventory costs, all SLN series transmitters are modular in design supporting the user's ability to change electronic modules without affecting overall performance. Electronic modules may be swapped with another electronics module without losing in-tolerance performance characteristics

With no performance effects, Honeywell's unique modularity results in *lower inventory needs and* 

### **Configuration Tools**

lower overall operating costs.

Integral Four Button Configuration Option is suitable for all electrical and environmental requirements, SmartLine offers the ability to configure the transmitter and display via four buttons.

### HandHeld Configuration

SmartLine transmitters feature two-way communication and configuration capability between the operator and the transmitter. This is accomplished via Honeywell's field-rated Multiple Communication Configurator.

### FDM and FDM Express

Honeywell's Field Device Manager (FDM) Software and FDM Express are available for managing HART® device configurations.

SmartLine Level Transmitter 3

### **Product Family**

### SLN700L-82 (80 GHz)

for liquids in corrosive process applications



The SLN700L-82 is an 80 GHz FMCW radar transmitter for continuous level measurement of liquids under different process conditions. The excellent beam focusing can provide accurate and reliable measurement in regular or strongly corrosive liquids.

The SLN700L-82 can measure in process conditions with temperatures up to +200°C and pressures up to 25 bar. The antenna options permit to measure distances up to 30 m. It offers an extensive choice of flanged process connections from DN50 to DN150.

### SLN700L-83 (80 GHz)

for liquids in process applications for small vessels



The SLN700L-83 is an 80 GHz FMCW radar transmitter for continuous level measurement of liquids under different process conditions, especially in small vessels. The excellent beam focusing can provide accurate and reliable measurement from basic process to mild corrosive liquids, especially for small vessels.

The SLN700L-83 can measure in process conditions with temperatures up to +200°C and pressures up to 25 bar. The antenna options permit to measure distances up to 30 m. It offers an extensive choice of threaded process connections from 34" to 3".

### SLN700S-87 (80 GHz)

for solids in process applications



The SLN700S-87 is an 80 GHz FMCW radar transmitter for continuous level measurement of solids under different process conditions. The excellent beam focusing can provide accurate and reliable measurement for most powder or bulk solids applications in storage vessels. Options for air purge or dust shield options optimize sensor performance in dusty conditions

The SLN700S-87 can measure in process conditions with temperatures up to +200°C and pressures up to 25 bar. The antenna options permit to measure distances up to 120 m. It offers an extensive choice of flanged process connections from DN100 to DN150.

### **General Specifications**

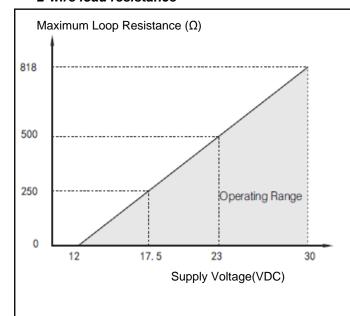
	SLN700L-82	SLN700L-83	SLN700S-87			
Applications:	Liquids	Liquids	Solids			
	Suitable for the strong corrosive liquids, vapours / foams	Suitable for mildly corrosive liquids; small vessels	Storage vessel/process vessel or high dust environment			
Measurement range:	0∼30 m	0~10 m (SLN700L-83A)	0∼120 m			
		0~30 m (SLN700L- 83B/C/D/E)				
Measurement accuracy:	±2	mm	±5mm			
Process temperature	(-40~150) °C	(-40~130) °C	(-40~130) °C			
	(-40~200) °C	(-40~200) °C	(-40~200) °C			
Process pressure	(-0.1∼2	2.5) MPa	(-0.1~0.3) MPa			
Antenna form: (See Antenna)	SLN700L-82A/B/C/D	SLN700L-82A/B/C/D SLN700L-83A/B/C/D/E				
Antenna + Lens material: (See Antenna)	316L+PTFE 316L+PTFE		316L+PEEK			
Process Connection (See Antenna)	Flange	Thread	Flange			
Seal Material	FKM	FFKM	FKM			
Frequency:	77-81 GHz					
Signal output:	4-20 mA & HART® (Height [Le	evel], Distance or Volume)				
Power supply:	2-wire (12~30) V DC					
Housing Material:	Polyester-coated aluminium					
Weight	SLN700L-82: approx. 5.1 to 18 SLN700L-83: approx. 1.8 to 3. SLN700S-87: approx. 4.8 to 8.	5 kg				
Ingress Protection level	IP67					
Unmeasurable area	End of antenna	End of antenna				
Measurement interval	approx. 1 s	approx. 1 s				
Adjust time	approx. 3 s					
Display resolution	1 mm					
Display	128 x 64 pixels, with 4-button l	keypad				

### **Operating Conditions – All Models**

Parameter	Description			
Environmental Operating	Device Operating range: -40 to 8	Device Operating range: -40 to 80°C		
temperature <sup>1</sup>	Display operating range: -20 to 8	80°C		
Temperature for storage and transport	-40 to +80 °C			
Relative humidity	<95%			
Power Supply	Standard type	(12∼30) V DC		
2-wire	Intrinsically safe	(12~30) V DC		
	Power consumption	max.22.5 mA		
	Ripples are allowed			
	-<100Hz	Uss<1 V		
	−(100~100K)Hz	Uss<10 mV		
Cable parameters	Cable entry/plug	M20x1.5/ ½'NPT cable entry, and M20x1.5/ ½'NPT blind plug		
	Spring collecting terminals	Used for conductor with cross section of 2.5 mm <sup>2</sup>		
Output parameter	Output signal	(4-20) mA/HART®		
	Resolution	0.3 μΑ		
	2-wire load resistance	Refer to Figure 3: 2-wire load resistance		

<sup>&</sup>lt;sup>1</sup> The ambient temperature limit for intrinsic safety differs. See section on Hazardous Locaiton Approvals.

### 2-wire load resistance



Note: A minimum of 250  $\Omega$  of loop resistance is required to support communications.

Loop resistance = Barrier resistance + Wire resistance + Receiver resistance

Supply Voltage	Max. Loop
(VDC)	Resistance (Ω)
12	0
17.5	250
23	500
30	818

Figure 3: 2-wire load resistance

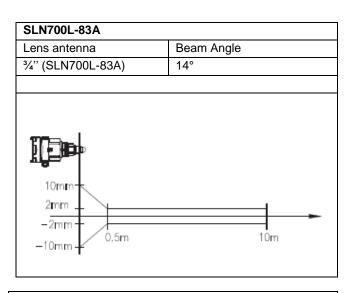
### **Performance Under Rated Conditions – All Models**

Parameter	Description		
Analog Output	Two-wire, 4 to 20 mA (Height [Level], Distance or Volume)		
Digital Communications:	HART® 7 protocol		
Output Failure Modes	Compliance: Honeywell Standard:		
	Normal Limits: 3.8 – 20.8 mA		
	Failure Mode: ≤ 3.6 mA and ≥ 21.0 mA		
Measurement accuracy	Refer to figure on page 7		
Temperature drift	±2 mm/10 K		
Repeatability	±1 mm		
Dielectric constant (minimum)	1.4		
Electromagnetic Compatibility	EN 301 489-1 V2.2.0, EN 301 489-3 V2.1.1, EN 302 729 V2.1.1,		
and Radio Equipment	EN 302 372 V2.1.1, EN 62311:2008		
Electrical Safety	EN 61010-1:2010		
Vibration-proof	Mechanical shock 10 m/s <sup>2</sup> , 10-150 Hz		

### Measurement accuracy under reference conditions

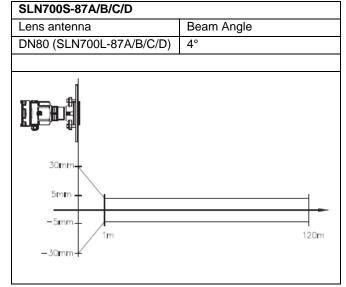
Measuring distance from lower edge of flange or thread

SLN700L-82A/B/C/D	
Lens antenna	Beam Angle
DN50 (SLN700L-82A/B)	6°
DN80 (SLN700L-82C/D)	3°
10mm 2mm -2mm -10mm	30m



	=
1½' (SLN700L-83B/C)	6°
3" (SLN700L-83D/E)	3°
PT⇒	
10mm	
2mm	
-2mm +	-
-10mm 0.5m	30m
-101111117	

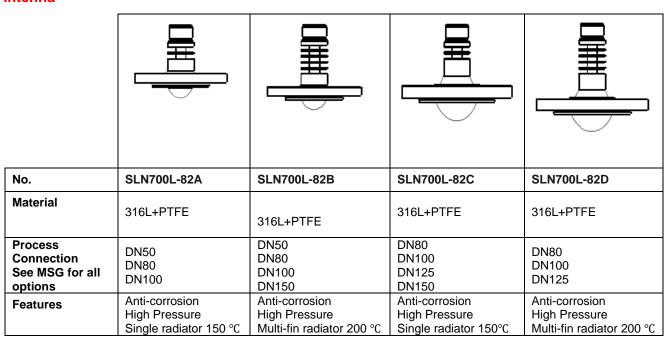
Beam Angle



SLN700L-83B/C/D/E

Lens antenna

### **Antenna**



No.	SLN700L-83A	SLN700L-83B	SLN700L-83C	SLN700L-83D	SLN700L-83E
Material	316L+PTFE	316L+PTFE	316L+PTFE	316L+PTFE	316L+PTFE
Process Connection	Thread G¾ A Thread ¾ NPT	Thread G1½ A Thread 1½ NPT	Thread G1½ A Thread 1½ NPT	Thread G3 A	Thread G3 A
Features	Anti-corrosion	Anti-corrosion	Anti-corrosion	Anti-corrosion	Anti-corrosion

No.	SLN700S-87A	SLN700S-87B	SLN700S-87C	SLN700S-87D
Material	316L+PEEK	316L+PEEK	316L+PEEK	316L+PEEK
Process Connection See MSG for all options	DN100 DN125 DN150	DN100 DN125 DN150	DN100 DN125 DN150	DN100 DN125 DN150
Features	Thread/purging Micro Pressure 130 °C	Thread/purging Micro Pressure with Radiator 200 °C	Universal/purging Atmospheric 130 °C	Universal/purging Atmospheric with Radiator 200 °C

### **Housing Dimensions**

### AG type housing

Material: Polyester Powder Coated Aluminum

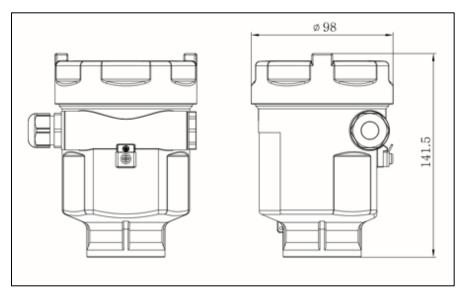


Figure 4: AG type housing

### **Dimensional Drawings**

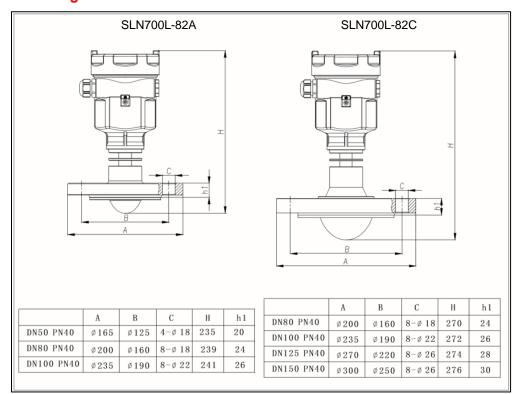


Figure 5: SLN700L-82A/C

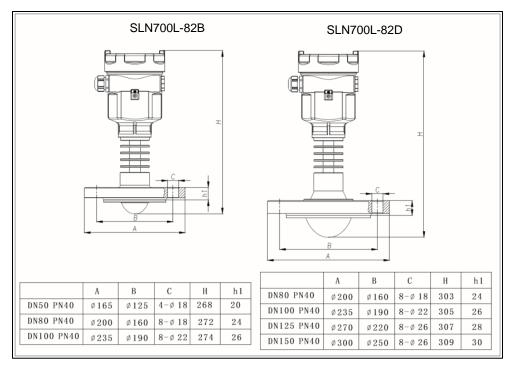


Figure 6: SLN700L-82B/D

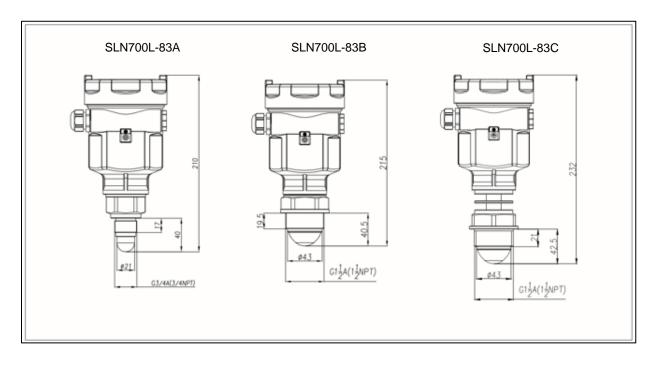


Figure 7: SLN700L-83A/B/C

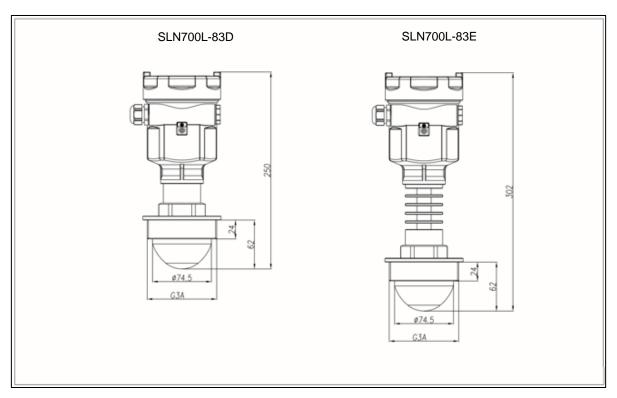


Figure 8: SLN700L-83D/E

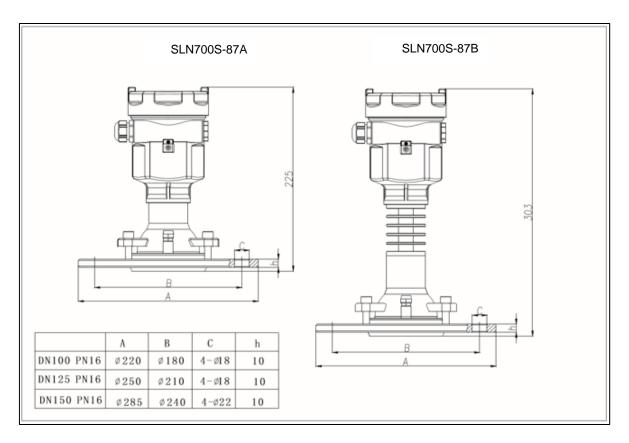


Figure 9: SLN700S-87A/B

### **Hazardous Location Approvals**

See manual for Special Conditions of safe use

AGENCY	TYPE OF PROTECTION
IECEx	Intrinsically Safe:  Ex ia IIC T6T2 Ga  Ex ia IIIC T85°CT300°C Da
ATEX	Intrinsically Safe: II 1 G Ex ia IIC T6T2 Ga II 1 D Ex ia IIIC T85°CT300°C Da
CSA/ CSA-US	Intrinsically Safe: Canada: Class I, Division 1, Groups A,B,C,D T6T2 Class II, Division 1, Groups E,F,G T85°CT300°C Exia IIC T6T2 Ga Ex ia IIIC T85°CT300°C
InMETRO (Brazil)	Intrinsically Safe: Ex ia IIC T6T2 Ga Ex ia IIIC T85°CT300°C Da
CCoE (India)	Intrinsically Safe: Ex ia IIC T6T2 Ga Ex ia IIIC T85°CT300°C Da

Ambient Temperature (°C)	Process Temperature at the Antenna (°C)	Temperature Class of entire transmitter
-40 to +50	-40 to +50	T6/85 C
-40 to +60	-40 to +95	T5/100 C
	-40 to +130	T4/135 C
-40 to +70	-40 to +195	T3/200 C
	-40 to +200	T2/300 C

Intrinsic Safety Entity Parameter	4-20mA Version Terminals 1 & 2	RS485 Version Terminals 1 & 2	RS485 Version Terminals 4 & 5
Ui	30.6V	26.4V	6.5V
li	131mA	166mA	68mA
Pi	1.0W	1.1W	111mW
Ci	0	0	0
Li	102uH	0	102uH

### **Model Selection Guide**

Model Selection Guides are subject to change and are inserted into the specifications as guidance only.

### **Honeywell**

SLN700 \_

Section 15
Page: SLN7-1
Effective Date: December 1, 2022

### Model SLN700 Series Liquid/Solid Measurement Smartline Non Contact Radar Level Transmitter

Model Selection Guide: 34-SL-16-20, Issue 10

Instructions

• Select the desired Key Number. The arrow to the right marks the selection available.

A (e) denotes unrestricted availability. A letter denotes restricted availability.

Restrictions follow Table IX.

Key Number Table 1 Table 2 Table 3 Table 4 Table 5 Table 6 Table 7 Table 8 T

Honeywell Proprietary

KEY NUMBER			Application				Selection	Avail	ability
	Liquid Level Measurement Solid Level Measurement						SLN700L	<b>+</b>	
							SLN700S		\
TABLE I		Anten	na and Material Select	tions			Selection		
	Antenna Type	Process temperature	Process Pressure	Lens Diameter	Options	Range	Selection	L	S
		-40 to +130 °C (-40 to +266 °F)	-125 barg (-14.5362 psig)	50mm		30m	82A	•	
		-40 to +200 deg C (-40 to +392 F)	-125 barg (-14.5362 psig)	50mm		30m	82B		
		-40 to +130 °C (-40 to +266 °F)	-125 barg (-14.5362 psig)	80mm		30m	82C		
	Flange with	-40 to +200 deg C (-40 to +392 F)	-125 barg (-14.5362 psig)	80mm		30m	82D		
	encapsulated antenna	-40 to +130 deg C (-40 to +266 F)	01 barg (014.5 psig)	80mm	Gimbal Flange	120m	87A		•
a. Antenna type and		-40 to +200 deg C (-40 to +392 F)	01 barg (014.5 psig)	80mm	Gimbal Flange	120m	87B		
materials		-40 to +130 deg C (-40 to +266 F)	-13 barg (-14.543.5 psig)	80mm		120m	87C		•
		-40 to +200 deg C (-40 to +392 F)	-13 barg (-14.543.5 psig)	80mm		120m	87D		
		-40 to +130 deg C (-40 to +266 F)	-125 barg (-14.5362 psig)	3/4"		10m	83A		
		-40 to +130 deg C (-40 to +266 F)	-125 barg (-14.5362 psig)	1½"		30m	83B		
	Thread with integrated horn antenna	-40 to +200 deg C (-40 to +392 F)	-125 barg (-14.5362 psig)	1½"		30m	83C		
		-40 to +130 deg C (-40 to +266 F)	-125 barg (-14.5362 psig)	3"		30m	83D		
		-40 to +200 deg C (-40 to +392 F)	-125 barg (-14.5362 psig)	3"		30m	83E		
b. Lens materials	PTFE (-40 to +200 deg C)						0_	k	
	PEEK (-40 to +200 deg C)					B_		•	
c. Seal materials	FKM (-40 to +200 deg C)					0	•	•	
	FFKM (-20 to +200 deg C)						A	е	
TABLE		opposition Types Material Size Pating							_ c

			2"	Class 150lb RF	AS2A	С	
				Class 300lb RF	AS2B	С	
			3"	Class 150lb RF	AS3A	а	1
	Floridae		3	Class 300lb RF	AS3B	a	
	Flanges ANSI	316L	4"	Class 150lb RF	AS4A	d	•
	ANSI		4	Class 300lb RF	AS4B	đ	
			6"	Class 150lb RF	AS6A	f	•
			6"	Class 300lb RF	AS6B	f	
			8"	Class 150lb RF	AS8A		•
			DN50	DN50 PN40	DS5B	С	
	Flanges DIN	316L	DN50	DN50 PN16	DS5A	С	
Process Connection			DN80	DN80 PN40	DS8B	a	
			DN80	DN80 PN16	DS8A	a	
			DN100	DN100 PN40	DS1B	d	
				DN100 PN16	DS1A		•
			DN125	DN125 PN40	DS1M	f	
				DN125 PN16	DS1N		•
			DN150	DN150 PN40	DS1Z	f	
				DN150 PN16	DS1Y		•
	Threaded Fittings ISO228 and ANS	316L	3/4" NPT		NS7A	h	
			1 - 1/2" NPT		NS5A	m	
			3" NPT		NS8A	m	
			G 3/4"		GS7A	h	
	.cozzo ana Airo		G 1-1/2"		GS5A	m	
			G 3"		GS8A	n	

TABLE III	An-11-11 An-11	rovale (coo data = b = -	t for Annroy-1	ada Dataila)	Selection	1	s
TABLE III		rovals (see data shee	t for Approval C	ode Details)		L	
	No Explosion Protection Approvals Requ	0	•	•			
	CSA (Canada & USA) Intrinsically safe				В	•	•
	ATEX Intrinsically Safe	С	•	•			
Approvals	IECEx Intrinsically Safe INMETRO Intrinsically Safe			D	•	•	
				F	•	•	
	NEPSI Intrinsically Safe				G	•	•
	CCoE Intrinsically Safe				Н	•	•
TABLE IV		ELECTRONICS S	ELECTIONS		A. I		
a. Electronic Housing	Housing Material Connection Lightning Protection			Selection	L	S	
Material &	Polyester Powder Coated A	Aluminum	1/2 NPT	None	A	•	•
Connection Type	Polyester Powder Coated A	Aluminum	M20	None	В ——		
b. Output/ Protocol	4-20mA dc			HART Protocol	Н	٠.	•
•	Indicator	Zero, Span & Confi	g Buttons	Languages			
Customer Interface	None	None		None	0	•	•
Selections	Advanced	Yes		EN, CH	G	•	•
TABLE V		CONFIGURATION	SELECTIONS		O-la-stia-		
		Diagnos	tics		Selection	L	S
a. Diagnostics	Standard Diagnostics				1	•	•
b. Advanced		Interface O	ptions				
Measurement	None - Standard Level				_0	•	•
	Write Protect	Fail Mode		igh & Low Output Limits <sup>3</sup>			
c. Output Limit,	Disabled	High> 21.0mAdc		ywell Std (3.8 - 20.8 mAdc)	1 _	•	•
Failsafe & Write	Disabled	Low< 3.6mAdc		ywell Std (3.8 - 20.8 mAdc)	2_	•	•
Protect Settings	Enabled	High> 21.0mAdc		ywell Std (3.8 - 20.8 mAdc)	3_	•	•
	Enabled	Low< 3.6mAdc	Hone	ywell Std (3.8 - 20.8 mAdc)	4_	•	•
d. General Configuration	Factory Standard				s	•	•
TABLE VI		ALIBRATION & ACCUR	ACY SELECTION	IS			
Accuracy and	Accuracy	Calibrated I		Calibration Qty	Selection		
Calibration	Std Accuracy (+/-2mm) Fa	actory Std		Single Range	A	•	•
TABLE VII		ACCESSORY SE	LECTIONS		Selection		
	No customer tag	0	•	•			
a. Customer Tag	One Wired Stainless Steel Tag (Up to 4	1	•				
rag	Two Wired Stainless Steel Tag (Up to 4	lines 26 char/line)			2	•	•
b. Unassembled	No Conduit Plugs or Adapters Required				_ A0	١.	١.
Conduit	,						
Plugs &	1/2 NDT 316 SS Certified Conduit Plug				A.C.	<b>—</b>	
	1/2 NPT 316 SS Certified Conduit Plug				_ A6	•	_
Plugs &	1/2 NPT 316 SS Certified Conduit Plug M20 316 SS Certified Conduit Plug				_A6 _A7	•	•
Plugs &	•	tring in sequence con	nma delimited (X	X, XX, XX,)			_
Plugs & Adapters	M20 316 SS Certified Conduit Plug	tring in sequence con	nma delimited (X	X, XX, XX,)	_A7		_
Plugs & Adapters	M20 316 SS Certified Conduit Plug  OTHER Certifications & Options: (St		Ì	)	_ A7 Selection		٠
Plugs & Adapters	M20 316 SS Certified Conduit Plug  OTHER Certifications & Options: (St None EN10204 Type 3.1 Material Traceability		Ì	XX, XX, XX,)	_ A7 Selection 00		٠
Plugs & Adapters	M20 316 SS Certified Conduit Plug  OTHER Certifications & Options: (St  None  EN10204 Type 3.1 Material Traceability Certificate of Conformance	r; pressure retaining par	Ì	X, XX, XX,)	A7 Selection 00 FX F3	:	:
Plugs & Adapters TABLE VIII	M20 316 SS Certified Conduit Plug  OTHER Certifications & Options: (St None EN10204 Type 3.1 Material Traceability Certificate of Conformance Calibration Test Report & Certificate of	r; pressure retaining par	Ì	X, XX, XX,)	A7 Selection 00 FX F3 F1	:	
Plugs & Adapters  TABLE VIII  Certifications &	M20 316 SS Certified Conduit Plug  OTHER Certifications & Options: (St None EN10204 Type 3.1 Material Traceability Certificate of Conformance Calibration Test Report & Certificate of Certificate of Origin	r; pressure retaining par	Ì	X, XX, XX,)	A7 Selection 00 FX F3 F1 F5	:	
Plugs & Adapters TABLE VIII	M20 316 SS Certified Conduit Plug  OTHER Certifications & Options: (St None  EN10204 Type 3.1 Material Traceability Certificate of Conformance Calibration Test Report & Certificate of Certificate of Origin Extended Warranty Additional 1 year	r; pressure retaining par	Ì	X, XX, XX)	A7 Selection 00 FX F3 F1 F5 01	:	
Plugs & Adapters  TABLE VIII  Certifications &	M20 316 SS Certified Conduit Plug  OTHER Certifications & Options: (St None  EN10204 Type 3.1 Material Traceability Certificate of Conformance Calibration Test Report & Certificate of Certificate of Origin Extended Warranty Additional 1 year Extended Warranty Additional 2 years	r; pressure retaining par	Ì	(X, XX, XX,)	A7  Selection  00  FX  F3  F1  F5  01  02	:	
Plugs & Adapters  TABLE VIII  Certifications &	M20 316 SS Certified Conduit Plug  OTHER Certifications & Options: (St None  EN10204 Type 3.1 Material Traceability Certificate of Conformance Calibration Test Report & Certificate of Certificate of Origin Extended Warranty Additional 1 year Extended Warranty Additional 2 years Extended Warranty Additional 3 years	r; pressure retaining par	Ì	X, XX, XX,)	A7  Selection  00  FX  F3  F1  F5  01  02  03	:	
Plugs & Adapters  TABLE VIII  Certifications &	M20 316 SS Certified Conduit Plug  OTHER Certifications & Options: (St None  EN10204 Type 3.1 Material Traceability Certificate of Conformance Calibration Test Report & Certificate of Certificate of Origin Extended Warranty Additional 1 year Extended Warranty Additional 2 years	r; pressure retaining par	Ì	X, XX, XX,)	A7  Selection  00  FX  F3  F1  F5  01  02  03  04	:	
Plugs & Adapters  TABLE VIII  Certifications &	M20 316 SS Certified Conduit Plug  OTHER Certifications & Options: (St None  EN10204 Type 3.1 Material Traceability Certificate of Conformance Calibration Test Report & Certificate of Certificate of Origin Extended Warranty Additional 1 year Extended Warranty Additional 2 years Extended Warranty Additional 3 years	r; pressure retaining par	Ì	X, XX, XX,)	A7  Selection  00  FX  F3  F1  F5  01  02  03	:	
Plugs & Adapters  TABLE VIII  Certifications &	M20 316 SS Certified Conduit Plug  OTHER Certifications & Options: (St None  EN10204 Type 3.1 Material Traceability Certificate of Conformance Calibration Test Report & Certificate of Certificate of Origin Extended Warranty Additional 1 year Extended Warranty Additional 2 years Extended Warranty Additional 3 years	r; pressure retaining par	Ì	X, XX, XX,)	A7  Selection  00  FX  F3  F1  F5  01  02  03  04	:	

### MODEL RESTRICTIONS

Restriction Letter	Availabl	e Only with	Not Available with		
Restriction Letter	Table	Selection(s)	Table	Selection(s)	
a	la	82A, 82B, 82C, 82D			
С	la	82A, 82B			
d	la	82A, 82B, 82C, 82D			
е	la	83A, 83B, 83C, 83D,83E			
f	la	82C, 82D			
h	la	83A			
k	la	82A, 82B, 82C, 82D,83A, 83B, 83C, 83D,83E			
m	la	83B, 83C			
n	la	83D, 83E			
b	Select only one option from this group				

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FIELD INSTALLABLE REPLACEMENT PARTS				
Description	Kit Number			
NCR Level HART Electronics module for Liquids	50155577-501			
NCR Level HART Electronics module for Solids				
NCR Level Display module				
NA P. S. A.				

Note P - For part number pricing please refer to WEB Channel.

#### Sales and Service

For application assistance, current specifications, ordering, pricing, and name of the nearest Authorized Distributor, contact one of the offices below.

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#### Web

Knowledge Base search engine <a href="http://bit.ly/2N5VIdi">http://bit.ly/2N5VIdi</a>

Specifications are subject to change without notice.

### For more information

To learn more about SmartLine Transmitters, visit <a href="https://www.process.honeywell.com">www.process.honeywell.com</a> Or contact your Honeywell Account Manager

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