



Technology for Precision Measurements



**PHASE DYNAMICS HIGH RANGE INSERTION MODEL NUMBERS**

**HI AA B C D E F G H I J K**

**Field AA designates process connection:**

1R	- ANSI Class 150 RF Flange	1J	- RTJ	1F	- Flat Face
3R	- ANSI Class 300 RF Flange	3J	- RTJ	3F	- Flat Face
6R	- ANSI Class 600 RF Flange	6J	- RTJ	6F	- Flat Face
9R	- ANSI Class 900 RF Flange	9J	- RTJ	9F	- Flat Face

**Field B designates measurement section diameter:**

3 - 3 inch (with RTD Assembly)

**Field C designates measurement section material:**

0	- 316 / 316L Stainless	2	- Monel
1	- Duplex 2205	3	- Hastelloy

**Field D designates measurement section temperature range:**

1	- 160°F (71°C) Maximum 10" Active Region Length, 16.6 inches overall.
2	- 220°F (104°C) Maximum 10" Active Region Length, 16.6 inches overall.
4	- 400°F (204°C) Maximum 10" Active Region Length, 16.6 inches overall.
6	- 600°F (315°C) Maximum 10" Active Region Length, 16.6 inches overall.

**Field E designates salinity range (See Salinity Matrix for salinity vs. temperature):**

0	- 0.5 to 8.0% Salinity	5	- 15.0 to 28.0% Salinity
1	- 0.1 to 0.5% Salinity	6	-
2	- 0.1 to 3.0% Salinity	7	-
3	- 0.1 to 8.0% Salinity	8	-
4	- 8.0 to 25.0% Salinity	9	- Special-Consult Factory

**Field F designates enclosure type:**

4	- NEMA 4X (only certification available is CSA)	X	- No Electronics Enclosure
E	- Explosion Proof		

**Field G designates electronics system:**

X	- Standard Electronics and Standard Oscillator Module
S	- Stand-alone Standard Oscillator Module

**Field H designates system cable length:**

0	- 30 feet (standard length)	5	- 30 feet Low Temp
1	- 50 feet	6	- 50 feet Low Temp
2	- 100 feet	7	- 100 feet Low Temp
3	- 150 feet (maximum length)	8	- 150 feet Low Temp (maximum length)
X	- No Cable		

**Field I designates certification requirements:**

1	- PDI – ¾" NPT Conduit Entry	5	- PDI – M20 Conduit Entry
2	- Factory Mutual – ¾" NPT Conduit Entry	6	- CE EEx II 2 G/D ATEX - ¾" NPT Conduit Entry
3	- CSA – ¾" NPT Conduit Entry		
4	- CE EEx II 2 G/D ATEX – M20 Conduit Entry		

**Field J designates communication protocols:**

0	- RS-422 ASCII	2	- MODBUS <sup>®</sup> RTU RS-485 (Standard)
1	- RS-485 ASCII (Multi Drop)	3	- HART <sup>®</sup>

**Field K designates power requirements:**

blank	- 120 VAC 60 Hz (standard)	D	- 120 VAC 60Hz with Enclosure Heater
A	- 230 VAC 50 Hz	E	- 230 VAC 50 Hz with Enclosure Heater
B	- 24 VDC	F	- 24 VDC with Enclosure Heater
C	- 120 VAC 50 Hz	G	- 120 VAC 50 Hz with Enclosure Heater