

A B C D E F G H I J K L M N O P Q

A. Measurement Range:		Field <u>A</u>
Low Range (up to 20% Water in Oil)		L
Mid Range (0% to Inversion Point Water in Oil)	Razor is Mid Range Only	M
High Range (Inversion Point to 100% Water in Oil)		H
Full Range (0 to 100% Water in Oil)		F
Parts Per Million		A
B. Measurement Section Configuration:		Field <u>B</u>
Insertion		I
Flow-Through "L"	<u>Note:</u> Not Available for 1 Inch Analyzers	L
Flow-Through "U"		U
Flow-Through "Z"		Z
Razor		R
CD. Process Connection:		Field <u>CD</u>
<i>Raised Face (RF), Ring Type Joint (RTJ), or Flat Face (FF) Flanges</i>		
ANSI Class 150#		1R, 1J, 1F
ANSI Class 300#		3R, 3J, 3F
ANSI Class 600#	<u>Note:</u> Flat Face Not Available Above 300#	6R, 6J
ANSI Class 900#		9R, 9J
ANSI Class 1500#	<u>Note:</u> Not Available for Insertion, 4" "U" Analyzers, or Razor	5R, 5J
<i>National Pipe Thread (NPT)</i>	<u>Note:</u> Only Available for 1 Inch Analyzers and Razor	TH
E. Measurement Section Diameter:		Field <u>E</u>
<i>Flow-Through & Razor Analyzers:</i>		
1 Inch	<u>Note:</u> Only Available for Low Range	1
2 Inch		2
3 Inch		3
4 Inch		4
6 Inch	<u>Note:</u> Only Available for Razor	6
<i>Insertion Analyzer:</i>		
3 Inch ONLY		3
F. Measurement Section Material:		Field <u>F</u>
316/316L Stainless (Standard)		0
Duplex 2205 with Teflon Coated Center Rod		1
Hastelloy with Teflon Coated Center Rod		3
316/316L Stainless with Teflon Coated Center Rod Only		6
G. Process Temperature Range:		Field <u>G</u>
32 - 160°F (0 - 71°C)		1
32 - 220°F (0 - 104°C)		2
32 - 400°F (0 - 204°C)	<u>Note:</u> Not Available for 1 Inch Analyzers or Razors	4
32 - 600°F (0 - 315°C)	<u>Note:</u> Not Available for 1 Inch Analyzers or Razors	6
Special Temperature Range - Consult Factory		5

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H. Measurement / Salinity Range:

Field H

For Low Range Analyzers:

0 to 4% Water in Oil	0
0 to 10% Water in Oil	1
0 to 20% Water in Oil	2

For Mid Range Analyzers:

0% to Inversion Point Water in Oil (Oil Continuous Phase Only)	Razor is Mid Range Only	0
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For High and Full Range Analyzers:

0.1 to 8.0% Salinity	3
8.0 to 25.0% Salinity	4
0.1 to 25.0% Salinity	6
Special – Consult Factory	9
Heuristic Salinity™ - 0.1 to 8.0% Salinity <u>Note:</u> Requires Touchscreen Electronics	A
Heuristic Salinity™ - 0.1 to 25.0% Salinity <u>Note:</u> Requires Touchscreen Electronics	C

I. Enclosure

Field I

Standard Oscillator Module:

NEMA 4X Enclosure. Note: PDI or CSA Certification Only for NEMA 4X	4
3-Hole Aluminum EP Box	E
4-Hole Aluminum EP Box	H
5-Hole Aluminum EP Box	I
6-Hole Aluminum EP Box	F
8-Hole Aluminum EP Box (CCM ONLY)	G
3-Hole Stainless Steel EP Box	3
4-Hole Stainless Steel EP Box	A
5-Hole Stainless Steel EP Box	5
6-Hole Stainless Steel EP Box	6

Razor Enclosure:

2-Hole Epoxy-Painted Aluminum EP Box	2
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Stand alone:

Stand Alone with no Enclosure	X
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J. Electronics

Field J

Standard Oscillator Module:

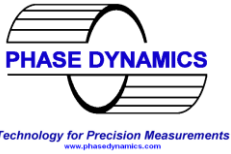
Enhanced Electronics with 4-Line LCD Display	B
Enhanced Electronics with Touch Screen	D
Expanded Electronics with 4-Line LCD Display	C
Expanded Electronics with Touch Screen	E

Razor:

Electronics with 2-Line LCD Display	R
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Stand-Alone Oscillator Module: Note: Only for OEM Orders

With Integral Transmitter	S
With Optional Enhanced 4-Line LCD Electronics	G
With Touch Screen	D



PHASE DYNAMICS, INC.
MODEL NUMBER CODE



A B C D E F G H I J K L M N O P Q

K. Cable Lengths:	Field <u>K</u>
30 feet	0
50 feet	1
100 feet	2
150 feet	3
7 feet	4
No Cable <i>Note:</i> No Cable Provided for Stand-Alone Analyzers or Razors	X
L. Certification & Inspection (Includes Cert/Spec Plates and Certificate):	Field <u>L</u>
<i>Without Documentation Package:</i>	
PDI – ¾”NPT Conduit Entry	1
PDI – M20 Conduit Entry	5
Factory Mutual – ¾”NPT Conduit Entry	2
CSA – ¾”NPT Conduit Entry	3
<i>With Documentation Package (NDE Testing per ASME Section V, ASME B31.3, Table 341.3.2):</i>	
Factory Mutual – ¾”NPT Conduit Entry <i>Note:</i> Does Not Include NDE Report	7
CSA – ¾”NPT Conduit Entry <i>Note:</i> Does Not Include NDE Report	8
ATEX CE II 2 GD Ex – M20 Conduit Entry	4
ATEX CE II 2 GD Ex – ¾”NPT Conduit Entry	6
IECEX Ex db - M20 Conduit Entry	9
IECEX Ex db - ¾" NPT Conduit Entry	A
M. Communication Protocols:	Field <u>M</u>
<i>Standard Analyzer:</i>	
(4) MODBUS RTU RS-485 plus (1) 4-20mA (Enhanced) or (5) 4-20mA (Expanded)	2
(4) MODBUS RTU RS-485 plus (1) HART 4-20mA (Enhanced) or plus (1) HART 4-20mA and (4) 4-20mA (Expanded)	3
<i>Razor:</i>	
(1) MODBUS RTU RS-485 plus 4-20mA	5
<i>Stand-Alone Analyzer:</i> <i>Note:</i> Only for OEM Orders	
MODBUS RTU RS-485 only	1
(2) MODBUS RTU RS-485	2
MODBUS RTU RS-485 plus HART 4-20mA	3
MODBUS RTU RS-485 plus 4-20mA	4
N. Power Requirements:	Field <u>N</u>
<i>Standard Analyzer:</i>	
120/230 VAC 50/60 Hz	A
24 VDC (Razor is 24VDC only)	B
120 VAC 50/60 Hz with 230 VAC Enclosure Heater	C
120 VAC 50/60 Hz with 120 VAC Enclosure Heater	G
120 VAC 50/60 Hz with 24 VDC Enclosure Heater	D
24 VDC with 24 VDC Enclosure Heater	F
24 VDC with 120 VAC Enclosure Heater	H
24 VDC with 230 VAC Enclosure Heater	I
230 VAC 50/60 Hz with 230 VAC Enclosure Heater	E
230 VAC 50/60 Hz with 120 VAC Enclosure Heater	L
230 VAC 50/60 Hz with 24 VDC Enclosure Heater	K
<i>Stand-Alone Analyzer:</i> <i>Note:</i> Only for OEM Orders	
24 VDC ONLY	B



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O. Miscellaneous Items:

Powder Coating (of enclosures only)

Epoxy Painting (of enclosures only)

Stainless Steel Enclosure (for Stand-Alone units)

Field O

1

2

0

PQ. Probe Length (Razor Only) - Designated in Inches (15" minimum - Contact Factory for Maximum)

1. Miscellaneous Items not included in Model Code:

NDE Report per ASME Section V, ASME B31.3, Table 341.3.2

(NDE Always Included with ATEX Certification)

PED Compliance (For CSA or ATEX Certified Analyzers ONLY)

30 Feet 3/4" NPT Anaflex Conduit Assembly

30 Feet M20 Anaflex Conduit Assembly

PMI Report per applicable ASME, ASTM, AWS, API Specifications

Stainless Steel Marking Tags

P/N

0012-00000-000

0020-00108-000

8000-00109-008

8000-00109-030

9100-00006-000

2030-00062-000