



Technology for Precision Measurements  
www.phase-dynamics.com

**PHASE DYNAMICS, INC.**  
**MODEL NUMBER CODE - 2016**

**ISO 9001:2008**  
Registered Company

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

<b>A. Measurement Range:</b>		<b>Field <u>A</u></b>
Low Range (up to 20% Water in Oil)		L
Mid Range (0% to Inversion Point Water in Oil)		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>B. Measurement Section Configuration:</b>		<b>Field <u>B</u></b>
Insertion		I
Flow-Through "L"	<u>Note:</u> Not Available for 1 Inch Analyzers	L
Flow-Through "U"		U
Flow-Through "Z"		Z
<b>CD. Process Connection:</b>		<b>Field <u>CD</u></b>
<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 or 4" "U" Analyzers	5R, 5J
National Pipe Thread (NPT)	<u>Note:</u> Only Available for 1 Inch Analyzers	TH
<b>E. Measurement Section Diameter:</b>		<b>Field <u>E</u></b>
<i>Flow-Through Analyzer:</i>		
1 Inch	<u>Note:</u> Only Available for Low Range	1
2 Inch		2
3 Inch		3
4 Inch		4
<i>Insertion Analyzer:</i>		
3 Inch ONLY		3
<b>F. Measurement Section Material:</b>		<b>Field <u>F</u></b>
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
<b>G. Process Temperature Range:</b>		<b>Field <u>G</u></b>
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	4
32 - 600°F (0 - 315°C)	<u>Note:</u> Not Available for 1 Inch Analyzers	6
Special Temperature Range - Consult Factory		5

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<b>H. Measurement / Salinity Range:</b>	<b>Field <u>H</u></b>
<i>For Low Range Analyzers:</i>	
0 to 4% Water in Oil	0
0 to 10% Water in Oil	1
0 to 20% Water in Oil	2
<i>For Mid Range Analyzers:</i>	
0% to Inversion Point Water in Oil (Oil Continuous Phase Only)	0
<i>For High and Full Range Analyzers:</i>	
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
<b>IJ. Electronics and Enclosures:</b>	<b>Fields <u>IJ</u></b>
<i>Standard Oscillator Module:</i>	
<u>In NEMA 4X Enclosure:</u> <u>Note:</u> PDI or CSA Certification Only for NEMA 4X	
With Enhanced 4-Line LCD Electronics	4B
With Expanded 4-Line LCD Electronics	4C
With Enhanced Touchscreen Electronics	4D
With Expanded Touchscreen Electronics	4E
<u>In Standard Explosion Proof Enclosure:</u>	
With Enhanced 4-Line LCD Electronics in 3 or 6-hole EP Enclosure	EB, FB
With Expanded 4-Line LCD Electronics in 6-hole EP Enclosure	FC
With Enhanced 4-Line LCD Electronics in 4 or 5-hole EP Enclosure	HB, IB
With Expanded 4-Line LCD Electronics in 4 or 5-hole EP Enclosure	HC, IC
With Expanded 4-Line LCD Electronics in 8-hole EP Enclosure (CCM Only)	GC
With Enhanced Touchscreen Electronics in 3 or 6-hole EP Enclosure	ED, FD
With Enhanced Touchscreen Electronics in 4 or 5-hole EP Enclosure	HD, ID
With Expanded Touchscreen Electronics in 4 or 5-hole EP Enclosure	HE, IE
With Expanded Touchscreen Electronics in 6-hole EP Enclosure	FE
With Expanded Touchscreen Electronics in 8-hole EP Enclosure (CCM Only)	GE
Special – Consult Factory	SP
<u>In Stainless Steel Explosion Proof Enclosure:</u>	
With Enhanced 4-Line LCD Electronics in 3-hole EP Enclosure	3B
With Expanded 4-Line LCD Electronics in 3-hole EP Enclosure	3C
With Enhanced Touchscreen Electronics in 3-hole EP Enclosure	3D
With Expanded Touchscreen Electronics in 3-hole EP Enclosure	3E
<i>Stand-Alone Oscillator Module:</i> <u>Note:</u> Only for OEM Orders	
With Integral Transmitter	XS
With Optional Enhanced 4-Line LCD Electronics in NEMA 4X Enclosure	4G
With Optional Enhanced 4-Line LCD Electronics in 3-hole Explosion Proof Enclosure	EG
<b>K. Cable Lengths:</b>	<b>Field <u>K</u></b>
30 feet	0
50 feet	1
100 feet	2
150 feet	3
7 feet	4
No Cable <u>Note:</u> No Cable Provided for Stand-Alone Analyzers	X

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<b>L. Certification &amp; Inspection (Includes Cert/Spec Plates and Certificate):</b>	<b>Field L</b>
<i>Without Documentation Package:</i>	
PDI – 3/4”NPT Conduit Entry	1
PDI – M20 Conduit Entry	5
Factory Mutual – 3/4”NPT Conduit Entry	2
CSA – 3/4”NPT Conduit Entry	3
<i>With Documentation Package (NDE Testing per ASME Section V, ASME B31.3, Table 341.3.2):</i>	
Factory Mutual – 3/4”NPT Conduit Entry <u>Note:</u> Does Not Include NDE Report	7
CSA – 3/4”NPT Conduit Entry <u>Note:</u> Does Not Include NDE Report	8
ATEX CE II 2 GD Ex – M20 Conduit Entry	4
ATEX CE II 2 GD Ex – 3/4”NPT Conduit Entry	6
<b>M. Communication Protocols:</b>	<b>Field M</b>
<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>Stand-Alone Analyzer: <u>Note:</u> Only for OEM Orders</i>	
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
<b>N. Power Requirements:</b>	<b>Field N</b>
<i>Standard Analyzer:</i>	
120/230 VAC 50/60 Hz	A
24 VDC	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: <u>Note:</u> Only for OEM Orders</i>	
24 VDC ONLY	B
<b>O. Miscellaneous Items:</b>	<b>Field O</b>
Powder Coating (of enclosures only)	1
Epoxy Painting (of enclosures only)	2
Stainless Steel Enclosure (for Stand-Alone units)	0
<b>1. Miscellaneous Items not included in Model Code:</b>	<b>P/N</b>
NDE Report per ASME Section V, ASME B31.3, Table 341.3.2 (NDE Always Included with ATEX Certification)	0012-00000-000
PED Compliance (For CSA or ATEX Certified Analyzers ONLY)	0020-00108-000
30 Feet 3/4" NPT Anaflex Conduit Assembly	8000-00109-008
30 Feet M20 Anaflex Conduit Assembly	8000-00109-030
PMI Report per applicable ASME, ASTM, AWS, API Specifications	9100-00006-000
Stainless Steel Marking Tags	2030-00062-000