



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

| | | |
|---|--|------------------------|
| 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) | | 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 |
| 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 or 4" "U" Analyzers | 5R, 5J |
| National Pipe Thread (NPT) | <u>Note:</u> Only Available for 1 Inch Analyzers | TH |
| E. Measurement Section Diameter: | | Field <u>E</u> |
| <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 |
| 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 | 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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| H. Measurement / Salinity Range: | Field <u>H</u> |
|---|-------------------------|
| <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 |
| IJ. Electronics and Enclosures: | Fields <u>IJ</u> |
| <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 |
| K. Cable Lengths: | Field <u>K</u> |
| 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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| L. Certification & Inspection (Includes Cert/Spec Plates and Certificate): | Field <u>L</u> |
|--|-----------------------|
| <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 |
| 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>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 |
| N. Power Requirements: | Field <u>N</u> |
| <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 |
| O. Miscellaneous Items: | Field <u>O</u> |
| Powder Coating (of enclosures only) | 1 |
| Epoxy Painting (of enclosures only) | 2 |
| Stainless Steel Enclosure (for Stand-Alone units) | 0 |
| 1. Miscellaneous Items not included in Model Code: | P/N |
| 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 |