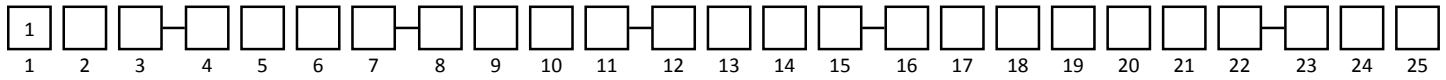


Expedited lead time of 12 working days at no additional cost on orders of five units or less

   Denotes up to 8 additional working days of lead time required when these options are selected

**ATLAS™ MAGNETIC LEVEL INDICATOR | MODEL NUMBER**



**1 | PRODUCT TYPE**

1	Atlas MLI
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**2 | UNIT OF MEASURE**

E	English Units (Inches)	Specifies the unit of measure for the <b>Center-to-Center</b> and <b>Visual Indication Length</b> (digits 23 – 25)
M	Metric Units (Centimeters)	

**3 | CHAMBER CONFIGURATION**

Process Connection Orientation	Chamber Top	Chamber Bottom	ANSI	
1 Side / Side	Welded end cap	Flanged (including mating blind flange)	A	150#
2 Side / Side	Flanged (including mating blind flange)	Dome cap	B	300#
3 Side / Side	Flanged (including mating blind flange)	Flanged (including mating blind flange)	C	600#

**4 | FLANGE RATING**

**5 | MATERIAL SELECTION**

Stainless Steels	
A	316/316L Stainless Steel
B	316/316L Stainless Steel w/Carbon Steel Flanges
C	304/304L Stainless Steel
D	304/304L Stainless Steel w/Carbon Steel Flanges

**6 | CONSTRUCTION CODE**

J	Extruded 'T' Industrial Grade	Code 5 = A Code 8 = B
Z	ASME B31.3 (extruded outlet)	
1	Industrial Grade (std.)	
2	ASME B31.1 for Power Piping Standard	
3	ASME B31.3 for Process Piping Standard	
4	Industrial Grade with NACE MR0175/0103	
6	ASME B31.3 for Process Piping Standard and NACE MR0103/0175	

**7 | CHAMBER FLANGE STYLE**

A	RF slip-on (standard for digit4 = A, B, C)
B	RF Weldneck Flange

**8 | PROCESS CONNECTION TYPE**

Flanged (Alloy)	
A	RF Slip-on Flange
B	RF Weldneck Flange
M	Male Threaded (NPT)
N	Female Threaded (NPT)
P	Plain-end Nipple
R	Buttweld

**9 | PROCESS CONNECTION SIZE**

Standard	
A	1/2"
B	3/4"
C	1"
E	2"

**10 | GASKET STYLE**

Gaskets for Metallic Flanges	
A	Flexible graphite ring ①
B	Spiral wound with graphite filler and carbon steel outer ring

① Standard gasket for 150# and 300# flange ratings suitable for most applications.

**11 | CHAMBER FLANGE BOLTING**

A	304 stainless steel
C	316 stainless steel
M	Alloy Steel A193 Gr. B7 / A194 Gr. 2H
p	Alloy Steel A193 Gr. B7M / A194 Gr. 2HM
S	Zinc-plated Carbon Steel

**12 | VENT SIZE**

1	1/2"
2	3/4"
N	None

**13 | VENT TYPE**

1	FNPT w/ Hex Head Plug (std.)
3	Male Threaded (MNPT)
4	Plain-End Nipple
5	Buttweld Nipple
6	RF Slip On Flange
7	RF Weld Neck Flange
N	None

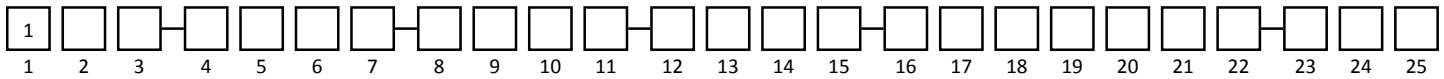
**14 | DRAIN SIZE**

Same code as **12**

**15 | DRAIN TYPE**

Same code as **13**

# ATLAS™ MAGNETIC LEVEL INDICATOR | MODEL NUMBER



## 16 | ACCESSORY / TECHNOLOGY CODE

N	None
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Switches Only (No Transmitter. See options below if transmitter is required)	
Y	Orion Electronic Switch (OES or ORS) clamp-mounted to chamber
Z	Orion Electronic Switch (OES or ORS) with switch mount rod

Jupiter® Magnetostrictive Transmitter (mounting configurations shown below)	Jupiter® Only, No switches	Jupiter® and at least one OES/ORS Switch (Clamp-mounted)	Jupiter® and at least one OES/ORS Switch (Rod-mounted)
Top Mount	1	A	L
Top Mount Offset/High-Temp	2	B	M
Bottom Mount Offset/High-Temp	3	C	P

## 17 | TEMPERATURE OPTIONS

N	None
A	Chamber pipe only up to 600 °F (316 °C)
B	Chamber pipe only 600 to 1000 °F (316 to 538 °C)
E	Indicator only digit 16 = N, Y -30 to 600 °F (-34 to 316 °C)
F	Indicator only digit 16 = N 601 to 1000 °F (317 to 538 °C)
K	Transmitter ② digit 16 = 1, 2, 3, A, B, C 601 °F (317 °C) to 1000 °F (538 °C)
R	Indicator & Jupiter ③ -40 to 600 °F (-40 to 316 °C)
U	Transmitter digit 16 = 1, 2, 3, A, B, C -40 °F to 600 °F (-40 to 316 °C)
V	Indicator & Jupiter ③ digit 16 = 2, 3 601 °F to 1000 °F (317 to 538 °C)

## 18 | MEASUREMENT TYPE & INDICATOR STYLE

Total Level Measurement	
1	Orange / Black Flags
2	Yellow / Black Flags
3	Red / White Flags

- ② Matches external mount Jupiter with digit 5 = E, F, H  
This temperature rating applies to insulation ONLY. Refer to transmitter section for temperature ratings for transmitters.
- ③ Matches external mount Jupiter with digit 5 = G, J

## 19 | INDICATOR HOUSING MATERIAL & SCALE ④

reveal Wide View Stainless Steel indicator		Anodized Aluminum Housing	
A	Foot / Inch Measurement	1	Foot / Inch Measurement
D	Percent (0 - 100%) Measurement	4	Percent (0 - 100%) Measurement
G	Meter / Millimeter Measurement	7	Meter / Millimeter Measurement
H	Foot / Inch with Percent (Dual Scale)	8	Meter / Centimeter Measurement
J	Meter / Millimeter with Percent (Dual Scale)	N	No scale
M	Meter / Centimeter Measurement		
P	No scale		

- ④ Aluminum indicator is required if either of the following conditions are true:
  - a) A glass viewing window is desired instead of shatter-resistant polycarbonate.
  - b) Process operating temperatures exceed above 800 °F (427 °C)

## 20, 21, 22 | FACTORY ASSIGNED

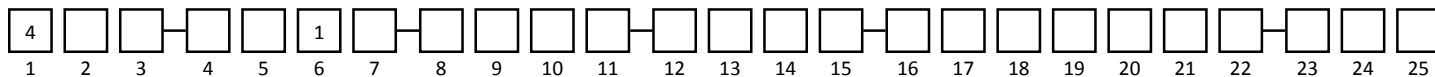
X X X	These codes are factory assigned. ⑤
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- ⑤ Not all chamber diameters and wall thicknesses are eligible for OrionXpress. Contact the factory or your local representative for more information.

## 23, 24, 25 | CENTER-TO-CENTER PROCESS CONNECTION DIMENSION & VISUAL INDICATION LENGTH

X X X	Specify in <b>INCHES</b> when model code 2 is <b>E</b> (length limitation is 12 to 192 inches ; 12 to 144 for Sch. 5) Specify in <b>CENTIMETERS</b> when model code 2 is <b>M</b> (length limitation is 30 to 488 cm; 30 to 366 cm for Sch. 5)
	<b>Example #1:</b> Center-to-Center is 84 inches. Enter as 084. (model digit 2 must be "E") <b>Example #2:</b> Center-to-Center is 124 centimeters. Enter as 124. (model digit 2 must be "M")

# VECTOR™ MAGNETIC LEVEL INDICATOR | MODEL NUMBER



## 1 | PRODUCT TYPE

4	Vector MLI
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## 2 | UNIT OF MEASURE

E	English Units (Inches)	Specifies the unit of measure for the <b>Center-to-Center</b> and <b>Visual Indication Length</b> (digits 23 – 25)
M	Metric Units (Centimeters)	

## 3 | CHAMBER CONFIGURATION

Process Connection Orientation	Chamber Top	Chamber Bottom
A Side / Side	Welded Flat Cap	Threaded Plug (NPT)
B Side / Side	Threaded Plug (NPT)	Welded Flat Cap
1 Side / Side	Welded Flat Cap	Flanged
2 Side / Side	Flanged	Welded Flat Cap

## 4 | FLANGE RATING

ANSI	
A	150#
B	300#

## 5 | MATERIAL SELECTION

Stainless Steels	
A	316/316L Stainless Steel
B	316/316L Stainless Steel w/Carbon Steel Flanges

## 6 | CONSTRUCTION CODE

1	Industrial non-PED
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## 7 | CHAMBER FLANGE STYLE

N	No Chamber Flange	Code 3= A or B
A	Raised Face Slip-on Flange	Code 3= 1 or 2

## 8 | PROCESS CONNECTION TYPE

Flanged (Alloy)	
A	RF Slip-on Flange
M	Male Threaded (NPT)

## 9 | PROCESS CONNECTION SIZE

Standard	
A	½"
B	¾"
C	1"
E	2" (machined to 1" size)

## 10 | GASKET STYLE

Gaskets for Metallic Flanges	
N	None (required if model code 3 is either A or B)
A	Flexible graphite ring ①

① Standard gasket for 150# and 300# flange ratings suitable for most applications.

## 11 | CHAMBER FLANGE BOLTING

N	None (required if model code 3 is either A or B)
S	Zinc-plated Carbon Steel (standard)

## 12,13 | VENT SIZE & TYPE

NN	None
11	½" NPT with Hex Plug
21	¾" NPT with Hex Plug

## 14,15 | DRAIN SIZE & TYPE

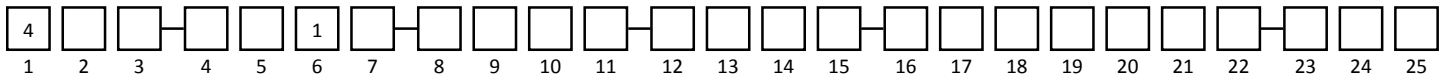
NN	None
11	½" NPT with Hex Plug
21	¾" NPT with Hex Plug

## 16 | ACCESSORY / TECHNOLOGY CODE

N	None
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Switches Only (No Transmitter. See options below if transmitter is required)	
Y	Orion Electronic Switch (OES or ORS) clamp-mounted to chamber

Jupiter® Magnetostrictive Transmitter (mounting configurations shown below)	Jupiter® Only, No switches	Jupiter® and at least one OES/ORs Switch (Clamp-mounted)
Top Mount	1	A
Top Mount Offset/High-Temp	2	B
Bottom Mount Offset/High-Temp	3	C



**17** | TEMPERATURE OPTIONS

N	None
U	Transmitter digit 16 = 1, 2, 3, A, B, C -40 to 600 °F (-40 to 316 °C)
E	Indicator only digit 16 = N, Y -30 to 600 °F (-34 to 316 °C)
R	Indicator & Jupiter ② digit 16 = 2, 3 -40 to 600 °F (-40 to 316 °C)

② Matches external mount Jupiter with digit 5 = E, F, H  
This temperature rating applies to insulation ONLY. Refer to transmitter section for temperature ratings for transmitters.

**18** | MEASUREMENT TYPE & INDICATOR STYLE

Total Level Measurement	
1	Orange / Black Flags
2	Yellow / Black Flags
3	Red / White Flags

**19** | MEASURING SCALE

N	No scale
1	Foot / Inch Measurement
8	Meter / Centimeter Measurement
4	Percent (0–100%) Measurement

**20, 21, 22** | FACTORY ASSIGNED

X X X	These codes are factory assigned. ③
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③ Not all chamber diameters and wall thicknesses are eligible for OrionXpress. Contact the factory or your local representative for more information.

**23, 24, 25** | CENTER-TO-CENTER PROCESS CONNECTION DIMENSION & VISUAL INDICATION LENGTH

X X X	Specify in <b>INCHES</b> when model code 2 is <b>E</b> (length limitation is 12 to 192 inches ; 12 to 144 for Sch. 5) Specify in <b>CENTIMETERS</b> when model code 2 is <b>M</b> (length limitation is 30 to 488 cm; 30 to 366 cm for Sch. 5)
	<b>Example #1:</b> Center-to-Center is 84 inches. Enter as 084. (model digit 2 must be “E”) <b>Example #2:</b> Center-to-Center is 124 centimeters. Enter as 124. (model digit 2 must be “M”)

## OES 10-Amp DPDT Point Level Switch | MODEL NUMBER

O	E	S	A	1			0	0	1
1	2	3	4	5	6	7	8	9	10

### 4 | ENCLOSURE MATERIAL

A	Cast Aluminum
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### 5 | AGENCY APPROVAL

1	FM / CSA
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### 6 | CHAMBER MOUNTING CODE

1	MLI model code digit 20 is 1, 2, or 7 (2" chamber)
2	MLI model code digit 20 is 3, 4, 5 or 6 (2½" chamber)
3	MLI model code digit 20 is A, B, C, or D (3" chamber)
4	MLI model code digit 20 is E, F, G, H, or J (4" chamber)
5	MLI is a Top Mount design (¾" chamber)
N	No clamps required (for use with switch mount rod; digit 7=R)

### 7 | CHAMBER MOUNTING CODE

C	Clamp mounted on MLI (standard)
P	Clamp mounted on MLI with insulation pad
R	Attached to switch mount rod (digit 6 must = N)

## ORS 1-Amp SPDT Point Level Switch | MODEL NUMBER

O	R	S					0	0	1
1	2	3	4	5	6	7	8	9	10

### 4 | ENCLOSURE

1	Standard stainless body without junction box
A	Option 1 with cast aluminum junction box

### 5 | AGENCY APPROVAL

1	FM / CSA
A	ATEX (digit 4 must NOT = 1)

### 6 | CHAMBER MOUNTING CODE

1	MLI model code digit 20 is 1, 2, or 7 (2" chamber)
2	MLI model code digit 20 is 3, 4, 5 or 6 (2½" chamber)
3	MLI model code digit 20 is A, B, C, or D (3" chamber)
4	MLI model code digit 20 is E, F, G, H, or J (4" chamber)
5	MLI is a Top Mount design (¾" chamber)
N	No clamps required (for use with switch mount rod; digit 7 = R)

### 7 | CHAMBER MOUNTING CODE

C	Clamp mounted on MLI (standard)
P	Clamp mounted on MLI with insulation pad
R	Attached to switch mount rod (digit 6 must = N)

## Jupiter Model JM4 MAGNETOSTRICTIVE TRANSMITTER | MODEL NUMBER – TRANSMITTER

J	M	4	5	1		A		1	
1	2	3	4	5	6	7	8	9	10

### 1, 2, 3 | BASIC MODEL NUMBER

JM4	Jupiter 4th Generation Magnetostrictive Level Transmitter
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### 4 | POWER

5	24 VDC Two-Wire
---	-----------------

### 5 | SIGNAL OUTPUT

1	4–20 MA with HART®
---	--------------------

### 6 | SAFETY OPTIONS

0	None
1	SIL 2 Hardware (3rd-party FMEDA report available)

### 7 | ACCESSORIES/MOUNTING

A	Digital Display and Keypad – Integral
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### 8 | AREA CLASSIFICATION

0	General Purpose, Weatherproof (IP 67)
1	Intrinsically Safe / FISCO (cFMus)
3	Explosion-proof / FNICO (cFMus)

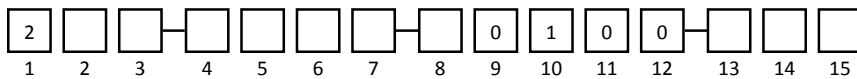
### 9 | HOUSING

1	Aluminum, Dual-component
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### 10 | CONDUIT CONNECTION

0	½" NPT
1	M20

# Jupiter Model JM4 MAGNETOSTRICTIVE TRANSMITTER | MODEL NUMBER – PROBE



## 1 | TECHNOLOGY

2	Jupiter Magnetostrictive Probes – Model JM4
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## 2 | MEASUREMENT SYSTEM

A	English <i>Probe length to be provided in inches</i>
C	Metric <i>Probe length to be provided in centimeters</i>

## 3 | CONFIGURATION

E	STANDARD Top Mount	<i>suitable for process temperatures -40 to +500 °F (-40 to +260 °C)</i>
F	STANDARD Top Mount Offset	
H	STANDARD Bottom Mount Offset	
K	HIGH-TEMP Top Mount	<i>suitable for process temperatures +501 to +850 °F (+261 to +454 °C)</i>
L	HIGH-TEMP Top Mount Offset	
M	HIGH-TEMP Bottom Mount Offset	

## 4, 5 | MOUNTING SIDE

00	Left-side MLI Mount
01	Right-side MLI Mount

## 6 | PROBE MATERIAL OF CONSTRUCTION

A	Powder-coated Aluminum Sensor Enclosure with 316 SS Probe (Available only with Digit 3 options F, H, L or M)
1	316 SS Sensor Enclosure with 316 SS Probe

## 7 | PROBE OPTIONS AND HAZARDOUS LOCATION APPROVALS (XP, IS, NI)

N	Standard Probe
V	Vibration Resistant Probe (Available only w/ Digit 3 options F, H, L or M)

## 8 | CHAMBER SIZE (FOR MOUNTING HARDWARE)

0	No mounting clamps required
---	-----------------------------

Select from these options if chamber DOES NOT contain high-temp insulation

1	2" (or if digit 20 of MLI model code is 1, 2 or 7)
2	2½" (or if digit 20 of MLI model code is 3, 4, 5 or 6)
3	3" (or if digit 20 of MLI model code is A, B, C, or D)
4	4" (or if digit 20 of MLI model code is E, F, G, H, or J)
5	¾" (for Atlas Top Mount Configuration only)

Select from these options if chamber DOES contain high-temp insulation

E	2" (or if digit 20 of MLI model code is 1, 2 or 7)
F	2½" (or if digit 20 of MLI model code is 3, 4, 5 or 6)
G	3" (or if digit 20 of MLI model code is A, B, C, or D)
H	4" (or if digit 20 of MLI model code is E, F, G, H, or J)
J	¾" (for Atlas Top Mount Configuration only)

## 10 | LEVEL/INTERFACE MEASUREMENT PREFERENCE

1	Measure Only the Total Liquid Level
2	Measure Only the Interface Level

## 13, 14, 15 | PROBE LENGTH — max. 400" (999 cm)

XXX	Example: 87 inches = 087 (Code 2 must be A) Example: 120 centimeters = 120 (Code 2 must be C)
(limited to 192 inches (487 cm) when digit 3 = K, L or M)	