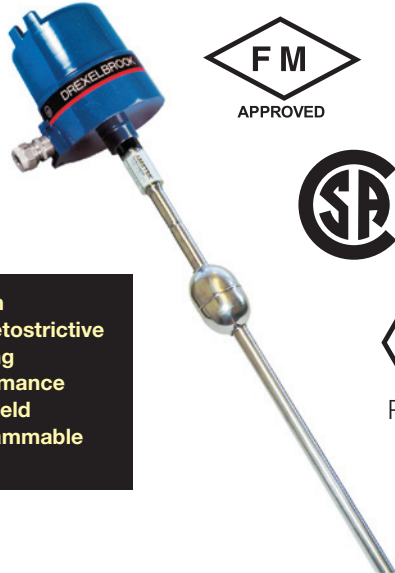


DM330 Series - Explosion-Proof Magnetostrictive Liquid Level Sensor



Proven
Magnetostrictive
Sensing
Performance
with Field
Programmable
Span.

Magnetostrictive Level Measurement System takes field proven sensing technology and incorporates intrinsic safety with a field programmable zero and span. Packaging is our patented low clearance design, making the DM330 ideal for level monitoring in a variety of liquids and tank designs.

Sensors are available in rigid 316SS. The stainless steel version has an optional housing which includes terminal connectors with zero and span adjustments. All offer totally welded construction.

Easy Installation

- No calibration needed
- Program zero & span in the field
- Set upper and lower limits on bench prior to installation.

High Accuracy

- 0.1% accuracy full scale over 4-20mA span.

Minimal Maintenance

- Unique diagnostic output provides float position beyond set span, beyond active range, as well as loss of float.

Patented Low Clearance Design

- Electronics all within 5/8" diameter sensor allows wider mounting options at less cost.

Intrinsically Safe

- FM, CSA, (CE, ATEX Pending)

All of the sensor's electronics are integrated within the 5/8 " diameter sensing tube. This breakthrough in package design eliminates the electronics enclosure at the top of the sensor, which reduces cost and offers greater options for insertion and mounting.

The DM330 is a two wire loop powered sensor approved for explosion-proof installation with a configurable 4 -20 mA span.

A variety of floats and mounting accessories are available to fit virtually any application. Contact the factory to match your needs today.

Continuous Level Measurement



Continuous Level Measurement

DM330 Series - Explosion-Proof

Specifications

Technology:

- Magnetostrictive

Calibration:

- None

Operating Voltage:

- 13.5 to 30Vdc

Loop Impedance (R):

- 1000 ohms 24Volts

Output:

- 4 to 20mA

Temperature Range:

- -20°C to 100°C (-4°F to 212°F)
Not Approved for Hazardous Locations above 70°C (158°F)

Null Zone:

- -20°C to 70°C (-4°F to 158°F) Max.

Pressure Rating:

- Stainless Steel:
Float dependent to 300 psi (20 bar)

Resolution:

- 0.025% full scale or 0.014" (0.35mm) whichever is greater

Repeatability:

- 0.014" + 0.05% of span typical, 0.014" + 0.4% of span max

Accuracy:

- 0.1% or 0.050" (1.27mm) (whichever is greater)

Enclosure:

- Stainless Steel Standard
- Epoxy painted aluminum housing (option)
- Probe Material: 316SS
- Probe Rating: IP68

Probe Length:

- Stainless Steel: 20" - 192" (508 mm - 7315 mm)
- Consult factory for lengths to 288"

Null Zone (Top):

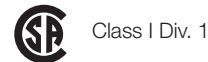
- Stainless Steel: 8" (203 mm)

Deadband (Bottom):

- Stainless Steel: 2" (51 mm)

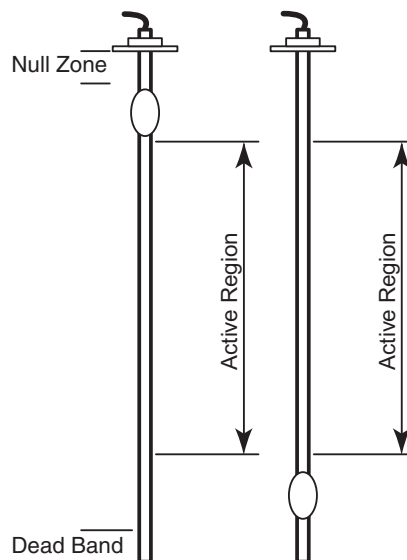
Approvals:

- Approved Explosion-Proof for hazardous locations by the following agencies



* Specifications may change without notice

Float Diagnostic



If Level or Interface Float are outside of active region:

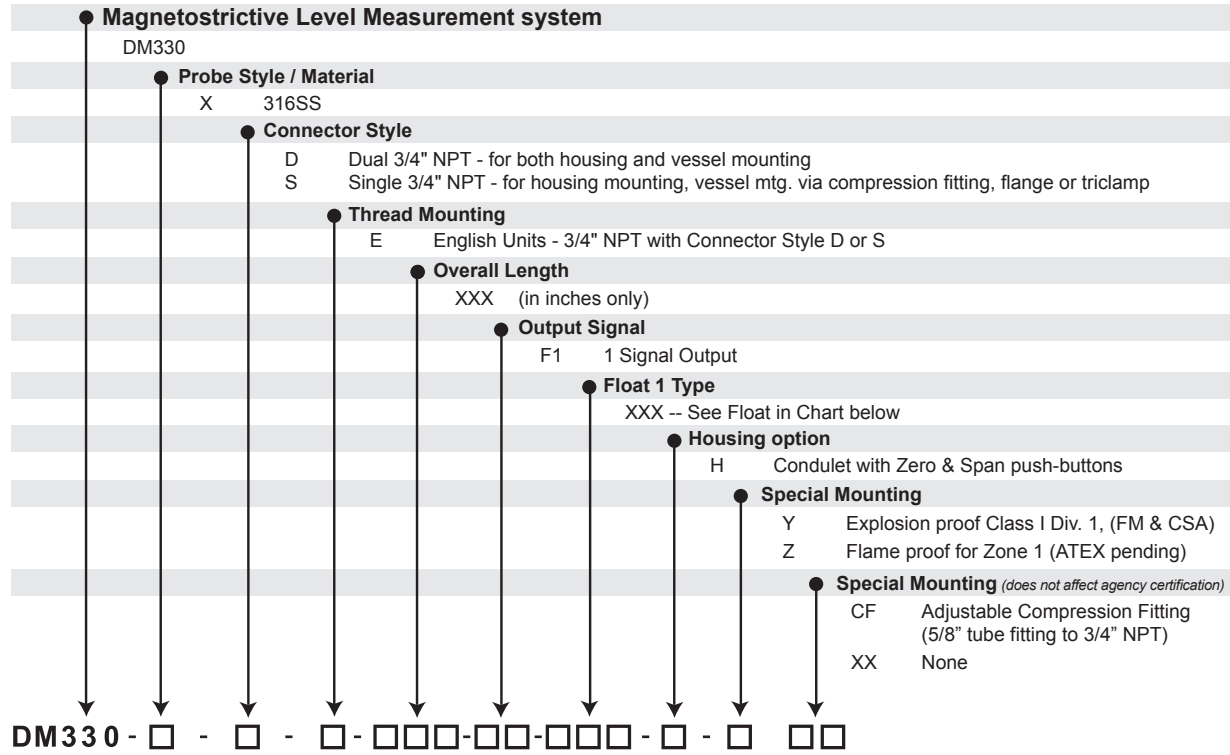
Analog Mode 3.7 mA

Modbus Mode "1000" as "product" or "interface" reading plus Status Byte

Continuous Level Measurement

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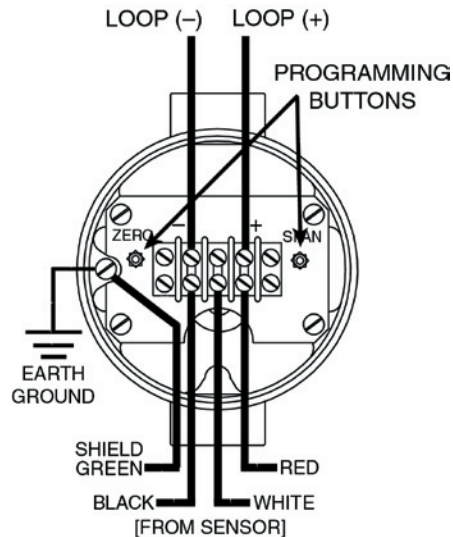
Model Numbering



Float Kits Float Type selection includes Float, spacer and retaining clip

Material	Shape	Diameter	Hight	S.G.	Max. Press.
PU0 Ureth.	Cylind	3.85"	2.75"	0.52	50psi
PN0 Nitrophenyl	Round	2.02"	1.38"	0.4	300psi
PE0 316SS	Oval	2.05"	2.7"	0.54	350psi
XXX	None				
YYY	- Special Float / Float Kit ordered as a separate line item				

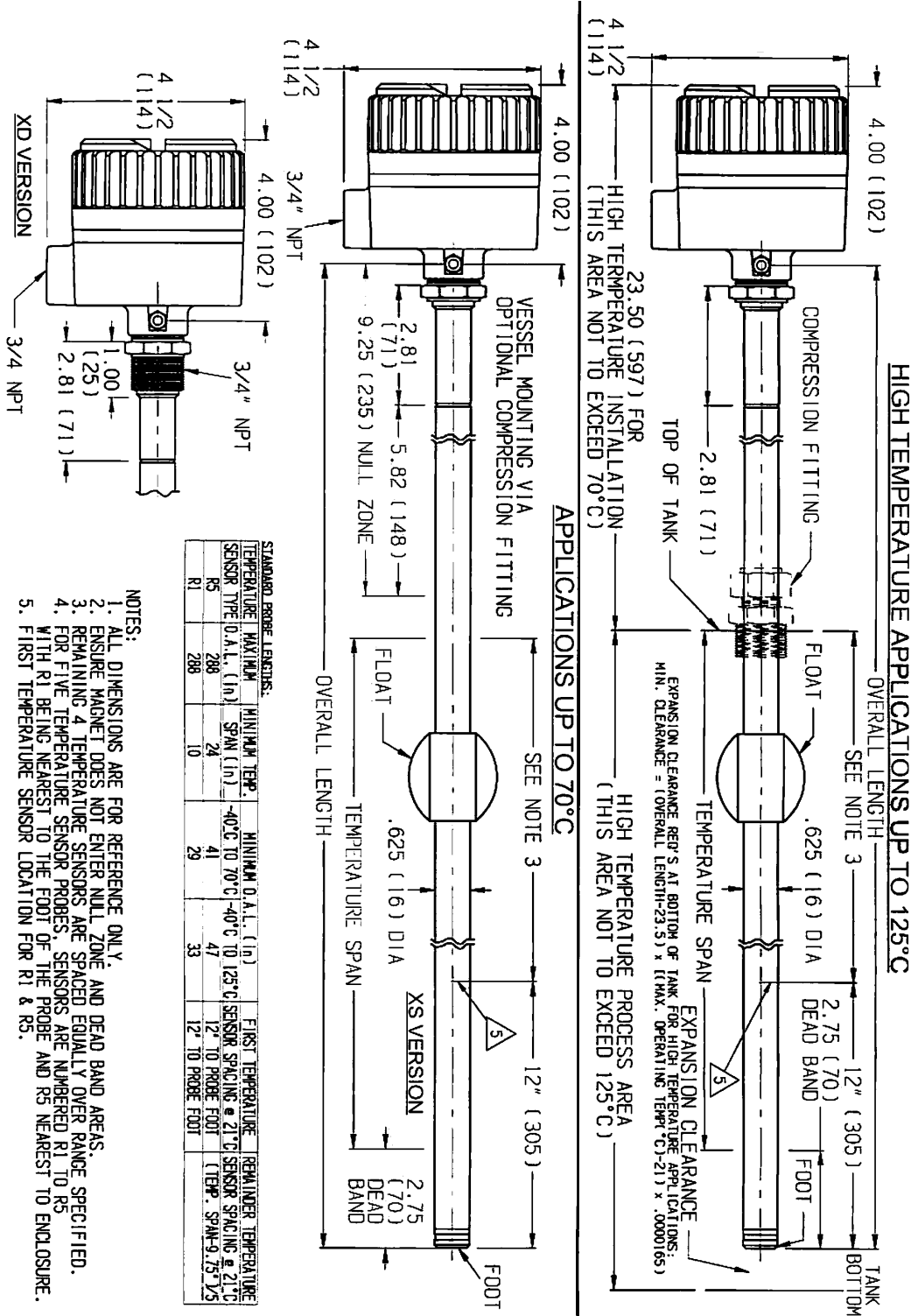
Wiring



Continuous Level Measurement

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Dimensions inches, (mm)



AMETEK® DREXELBROOK®

205 Keith Valley Road, Horsham, PA 19044 U.S.A.

Tel: 215-674-1234 Fax: 215 674-2731

Email: drexelbrook.info@ametek.com

Web: www.drexelbrook.com