

Level Plus[®]

Magnetostrictive Liquid Level Transmitters
with Temposonics[®] Technology



Temposonics

AN AMPHENOL COMPANY

RefineME[®] Application Data Sheet

Document Part Number
551692 Revision B (EN) 11/2012

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22

To build the sensor model number in the fields provided above, download the product specification / data sheet from the following RefineME[®] product page link and refer to the document's '**Ordering Information**':

<https://www.temposonics.com/Products/LiquidLevelTransmitters/RefineMErtransmitter>

General Info

Company name:

Email address:

Quote number:

Country of final destination:

Customer name:

Phone number:

Project name:

Factory contact:

Vessel Detail

Volume:

Height:

Diameter:

Material:

Lining:

Process connection type:

Process connection size:

Application Information

Maximum operating temperature:

Maximum operating pressure:

Vibration?: Yes No

Stilling well?: Yes No

Turbulence?: Yes No

Stilling well size:

Mixer?: Yes No

Foaming?: Yes No

Level 1

Process media:

Media specific gravity:

Viscosity:

Coating/buildup:

Level 2

Process media:

Media specific gravity:

Viscosity:

Coating/buildup:

Level Transmitter Specification

Interface

Output signal
(Check one):

Modbus

DDA

Single Loop (4-20 mA with HART®)

Dual Loop (4-20 mA with HART®)

Process Variables

(Check all that apply): Product level

Interface level

Volume (Modbus output required)

Point temperature

Multipoint temperature (Modbus or DDA output required)

Approval

Approval agency:

Method of protection:

Gas group:

Temperature code:

Mechanical Packaging

Housing Style:

Material of construction:

Process connection size:

Order length:

Process connection type:

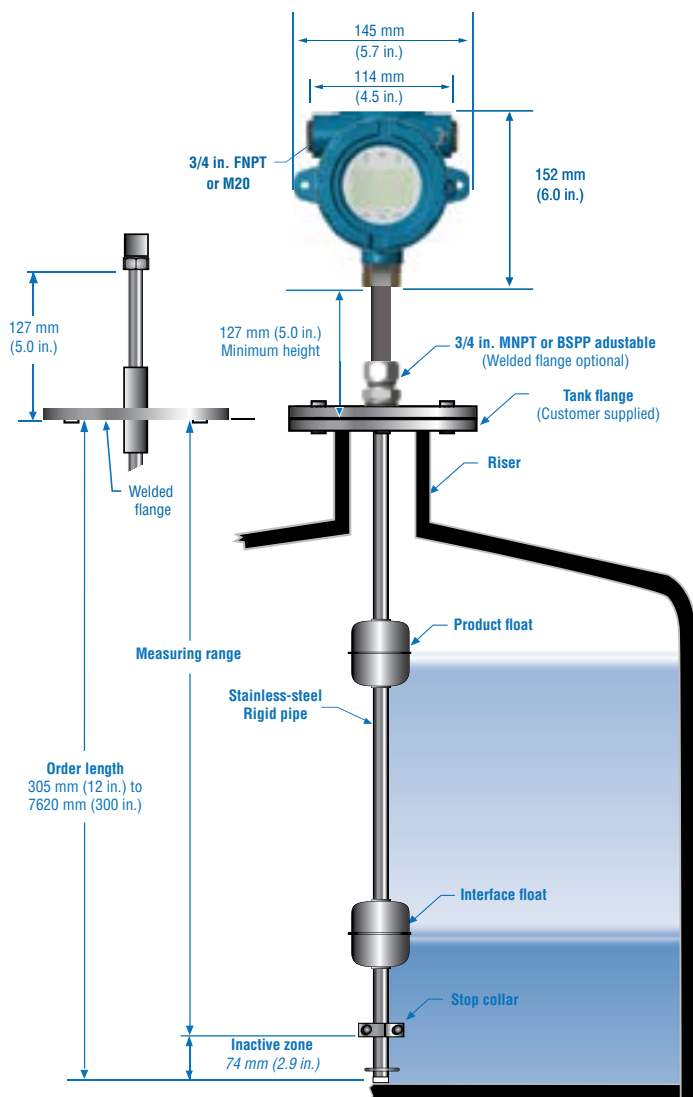
Custom Programming Information

Loop 1:	4 mA	20 mA	Level 1	Level 2	Temp
Loop 2:	4 mA	20 mA	Level 1	Level 2	Temp

Custom DT Locations

DT1	DT2	DT3	DT4	DT5	DT6	DT7	DT8
DT9	DT10	DT11	DT12	DT13	DT14	DT15	DT16

Notes



General Ordering Notes:

1. For Inactive Zone from the tip of the transmitter, refer to the illustration, for details see table 'Transmitter Inactive Zone Reference'.
2. Allow overhead clearance for installation and removal of transmitter.
3. All transmitter pipes come with a rigid sensor element. Flexible sensor elements are available, contact factory for more information.

Digital Ordering Notes:

1. DT 1 is 203 mm (8 in.) from the tip.
2. If you choose DT Placement Fixed, the first DT will be as described in Note 1 and the last DT will be at 80% of the order length. All other DTs will be evenly spaced.
3. If you choose DT Placement Custom, you must provide all DT locations in the Custom Temperature Position Table.

Minimum order length

Number of DTs	Minimum order length
0	305 mm (12 in.)
1	305 mm (12 in.)
5	914 mm (36 in.)
12	2032 mm (80 in.)
16	2794 mm (110 in.)

Transmitter Inactive Zone Reference

Material	Order Length 1219 mm (<48 in.)	Order Length 1220 mm (>48 in.)
316L SS, Hastelloy C	74 mm (2.9 in.)	74 mm (2.9 in.)
Teflon	115 mm (4.5 in.)	132 mm (5.2 in.)

Analog Ordering Notes:

1. 4 to 20 mA setpoints are set at the 'Minimum' or 'Maximum' positions unless otherwise specified. 'Minimum' is set to 76 mm (3 in.), 97 mm (3.8 in.), or 120 mm (4.7 in.) as standard dependent on the end plug. 'Maximum' is set to Order length minus 25 mm (1.0 in.) as standard.
2. Only available with one temperature measurement point. DT1 is 203 mm (8 in.) from the tip if length < 7620 mm (300 in.).

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