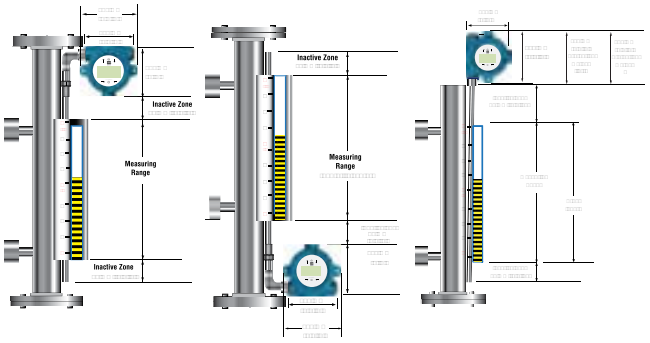
MTLT 5000
(LPC SERIES)

The MTLT5000-Magnetostrictive M or L Series is based upon the magnetostrictive principle. The sensing tube contains a wire which is pulsed at fixed time intervals. The interaction of the current pulse with the magnetic field created by the magnetic float causes a torsion stress wave to be induced in the wire. This torsion propagates along the wire at a known velocity from the position of the magnetic float and toward both ends of the wire. The microprocessor-based electronics measure the elapsed time between the start and return pulses and convert it into a 4-20 mA DC output which is proportional to the level being measured.

FEATURES	
No maintenance required	Multi-drop HART Communications
FM Approved Explosion Proof/IS	NEMA 4x/7 enclosures
Modular design	Adjustable output damping
Up to .001" resolution	2-wire loop powered
RFI/EMI protection	Available up to 300 inches
Process temperature range: -30 to 250°F	Offers a 4/20 mA 2-wire loop powered circuit for continuous level measurement



ELECTRONICS MOUNTING '4' TOP RIGHT

ELECTRONICS MOUNTING '6' BOTTOM RIGHT

ELECTRONICS MOUNTING '7' TOP MOUNT

"QTS STANDARD"

Temposonics
AN AMPHENOL COMPANY

MTLT | | | | | | | | | | | | | | | | | | | | S

MTLT 5000™

OUTPUT
M = Modbus
D = DDA
3 = 1 Loop with HART®
4 = 2 Loop

ELECTRONICS MOUNTING
3 = 90° bend housing top left
4 = 90° bend housing top right
5 = 90° bend housing bottom left
6 = 90° bend housing bottom right [std.]
7 = Top Mount no bend

PROCESS CONNECTION TYPE
X = None

NUMBER OF DT'S (DIGITAL THERMOMETER)
X = None

NOTIFIED BODY
C = CEC (FMC)
E = ATEX
F = NEC (FM)
I = IEC

GAS GROUP
A = Group A
B = Group B
C = Group C
D = Group D
1 = IIA
2 = IIB
3 = IIC
X = None

MEASURING RANGE (NO DECIMAL SPACES)

☒ ☒ ☒ ☒ ☒
Rigid Pipe: 12 to 144 in
(code as 01200 to 14400)*
*Contact factory for longer length

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Rigid Pipe: 305 to 3658 mm
(code as 00305 to 03658)*
*Order length is equal to center to center dimension + 4" [102mm]

S = Standard Product

HOUSING TYPE
D = Single cavity with display
E = Dual cavity with display
L = SS single cavity w/ display

SENSOR PIPE
B = ⅝" OD pipe
R = ½" OD pipe

PROCESS CONNECTION SIZE
X = None

DT PLACEMENT
X = None

PROTECTION METHOD
I = IS
F = Flameproof Explosion Proof
X = No Approval

UNIT OF MEASURE
M = Metric: Millimeters
U = US Inches