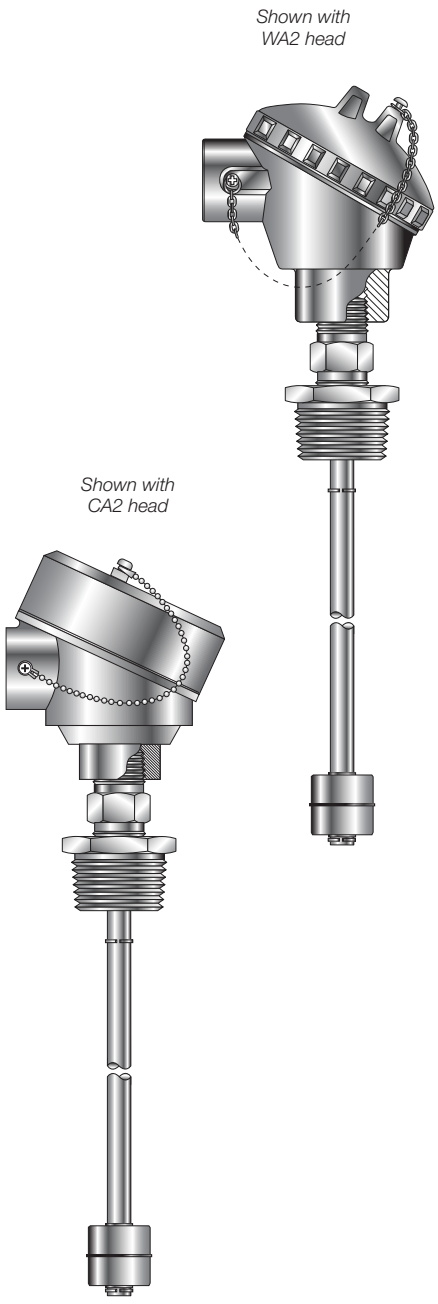
LFT01
All Stainless Steel Float Level Transmitter

Product Features

- *Compact design, ideal for OEM applications*
- *Various process fittings available*
- *Probe lengths to 96”*
- *1/4” or 1/2”resolution*
- *All stainless steel wetted parts*
- *Aluminum, stainless, polypropylene enclosures available; general purpose or explosion proof*
- *Continuous analog level measurement*
- *Analog output via head mounted hockey puck transmitter or remotely mounted DIN Rail transmitter*
- *Undisturbed by foaming*
- *Vapor insensitive*
- *Liquid interface detection*



Description

The LFT01 is a reed-chain type float level transducer suitable for level measurement in vessels of up to 96 inches in height. Of high quality construction, all wetted parts are stainless 316; other materials are available upon request.

Each transducer comes standard with an enclosure, head-mounted hockey-puck or remote mounted DIN rail transmitter, float and a fitting/probe. Reliable operation and simple design makes the LFT01 an excellent choice for many level sensing applications.

Application / Process Notes

- *Ideal for level measurement where installation space is limited or tanks are compact*
- *Water based liquids*
- *Acids compatible with Stainless 316*
- *Hydraulic and other clean oil applications*
- *Chemical holding tanks with clean liquids*
- *Measurement of liquid levels in mobile equipment*
- *Machinery, Energy, Naval, Industrial, Automation*
- *Not recommended where liquids are dirty or sticky*

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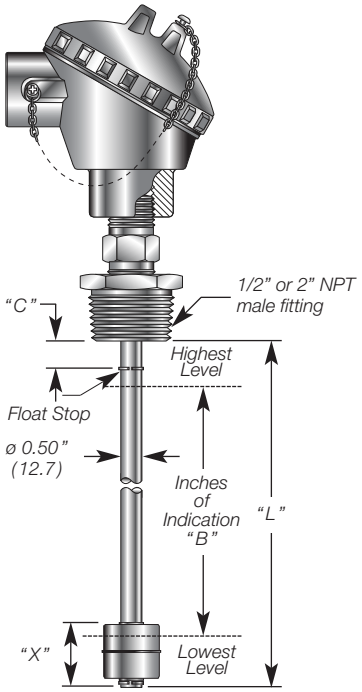
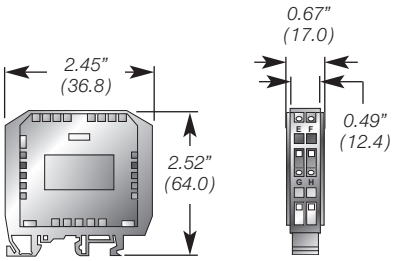
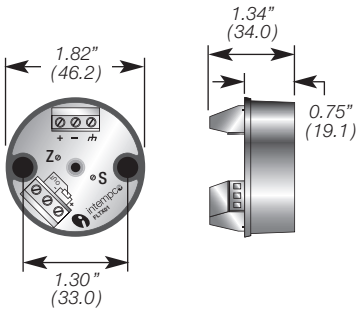
Dimensions





DIN Rail type, remote transmitter



Hockey puck type, transmitter

Float Factor - X

Float P/N	X
BA	2.36" (60)
CA	2.32" (59)

To Determine Dimensions

L: Overall Length
B: Inches of indication
C: Distance from bottom of mounting to float stop

Calculating Length

To find Overall Length ***"L"***
when Inches of Indication ***"B"*** is known:
L = B + C* + X

To find Maximum Inches of Indication ***"B"***
when Overall Length ***"L"*** is known:
B = L - C* - X

** C dimension is determined by customer. Floats are field-removable.*

Technical Specifications

Sensor Specifications

Sensing Technology : Reed Switch chain type
Measuring Range : From 12 to 96 inches (304 to 2438 mm)
Resolution : ± 0.50 inch (13 mm) standard
± 0.25 inch (6.5 mm) optional
Applicable Floats : See Float Types - **BA, CA,**
Dead Band : Dependent on Float: See Float Types
Minimum Liquid SG : Dependent on Float: See Float Types
Max. Pressure : Dependent on Float: See Float Types
Media Temperature Range : –20 to 120 °C (–4 to 250 °F)
Wetted Parts
Stem : Stainless 316 std.
Float : See Float Types
Fitting : Stainless 316 std.
Process Connection Size : 1/2" or 2" NPT male
Enclosures : See Head Types - **WAx, POx, AHx, CAx, CSx, EXx, ADx, XDx**
Transmitter Type Hockey puck or DIN Rail,
Hockey Puck : Zinc die cast enamel coated, NEMA 1/IP40
DIN Rail : Polyamide, NEMA 1/IP40
Adjustments : Via potentiometer, 20 turn

Environmental Specifications

Ambient Temperature Range : – 20 to 60 °C (– 4 to 140 °F)
Storage Temperature Range : – 40 to 80 °C (– 40 to 176 °F)
Media Temperature Range : – 20 to 120 °C (– 4 to 250 °F)
Environmental Protection : NEMA 4/IP65 or NEMA 4X/IP66 depending on enclosure selection

Output Data, 2-wire

Output Signals : 4-20 mA 2-wire
Maximum Loop Resistance : Rmax. = [Vsupply – 9 VDC] / 20 mA
Accuracy : ≤ ± 3.0 % FS max. ≤ ± 1.5 % FS typ.
Open Circuit Detection : Over-scale limit (27.0 mA) or Under-scale limit (2.2 mA)
Sensing Voltage & Current : 5 VDC max., 2.5 mA max.
Warmup : 30 sec.

Output Data, 3-wire

Output : 1-5 VDC, 0-5 VDC, 0-10 VDC, 3-wire
Accuracy : ≤ ± 3.0 % FS max. ≤ ± 1.5 % FS typ.
Output Impedance : >1 MΩ
Sensing Voltage & Current : 5 VDC max., 2.5 mA max.
Warmup : 30 sec.

Electrical Specifications

Supply Voltage : 12-32 VDC
Residual Ripple Supply Voltage : ≤ 5 %
Supply Voltage Protection : Reverse polarity, excess voltage, override and short circuit protected
Supply Effect : <0.02 % / V

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intempco

Custom Builder

MODEL	1	2	3	4	5	6	7	8	9	10
LFT01 -	_ _ -	_ _ _ -	_ -	_ _ -	_ _ -	_ _ -	_ _ -	N_ _ -	_ _ _ -	_

BOX 1 CODE	Electronic Module
HA	4-20 mA, 2-wire output Hockey-puck type, installed
HD	1-5 VDC, 3-wire output Hockey-puck type, installed
HE	0-5 VDC, 3-wire output Hockey-puck type, installed
HF	0-10 VDC, 3-wire output Hockey-puck type, installed
DA	4-20 mA, 2-wire output DIN Rail type, remote
DD	1-5 VDC, 3-wire output DIN Rail type, remote
DE	0-5 VDC, 3-wire output DIN Rail type, remote
DF	0-10 VDC, 3-wire output DIN Rail type, remote
RA	0-5 KΩ, 3-wire output
RB	0-10 KΩ, 3-wire output
RC	0-20 KΩ, 3-wire output
Rx	0-xx KΩ, 3-wire output, Specify

Other outputs available. Consult factory.

BOX 2 CODE	Resolution
A	± 0.50 inch (12.7 mm) resolution
B	± 0.25 inch (6.4 mm) resolution

BOX 3 CODE	Enclosure
00	No head, supplied with 36" single Teflon leads
WA*	Aluminum die cast screw cover, meets NEMA 4/IP65 requirements
PO3	White polypropylene screw cover, meets NEMA 4X/IP65 requirements
AH2	Aluminum die cast flip cover, meets NEMA 4/IP65 requirements
CA*	Aluminum cast screw cover, epoxy coated, NEMA 4X/IP66
CS*	Cast stainless steel 316 screw cover, meets NEMA 4X/IP66 requirements
EX*	Cast aluminum, Explosion Proof, CSA, FM Approval Class I, Div. 1, Gps. B,C & D Class II, Div. 1, Gps. E, F & G, Type 4x
CX*	Cast stainless steel, Explosion Proof, CSA, FM Approval Class I, Div. 1, Gps. B,C & D Class II, Div. 1, Gps. E, F & G, Type 4x
AD*	Cast aluminum, Explosion Proof, CSA, FM Approval Class I, Div. 1, Gps. B,C & D Class II, Div. 1, Gps. E, F & G, Type 4x
XD*	Cast aluminum, Explosion Proof, CSA, FM Approval Class I, Div. 1, Gps. B,C & D Class II, Div. 1, Gps. E, F & G, Type 4x

***2** = *1/2" NPT Conduit* ***3** = *3/4" NPT Conduit*

BOX 4 CODE	Certificates of Compliance
X	None, for non-hazardous areas

BOX 5 CODE	Float Style
BA	SS316, ø2.10" x 2.10" L, SG=0.49
CA	SS316, ø2.06" x 2.06" L, SG=0.60

Floats are field-removable.
Other floats available. Consult factory.

BOX 6 CODE	Fitting Type & Size
EN	1/2" NPT male*
KN	2" NPT male

**Float must be removed prior to installation.*

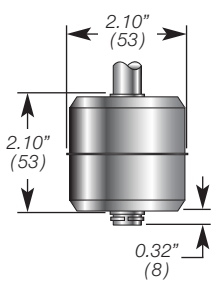
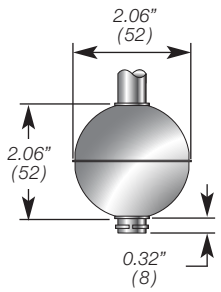
BOX 7 CODE	Fitting Material
S	Stainless steel 316/316L

BOX 8 CODE	Probe Type
HA	Tube Ø.500" x .062" wall, SS316L

BOX 9 CODE	Float Stop Distance "C"
N_ _	In 0.1" increments Ex.: **N20** = 2.0" long

BOX 10 CODE	Probe Length "L"
_ _ _	In 0.1" increments (from 6" to 36") Ex.: **165** = 16.5" long

Float Types

Float Dimensions				
Part Number	**BA**	**CA**		
Float Material	Stainless steel 316	Stainless steel 316		
Float SG/Min. Liquid SG	0.49/0.75	0.60/0.85		
Operating Pressure, Max.	300 psi (21 bar)	750 psi (51 bar)		
Operating Temp. Max.	150°C (302°F)	150°C (302°F)		