



Instrument Details

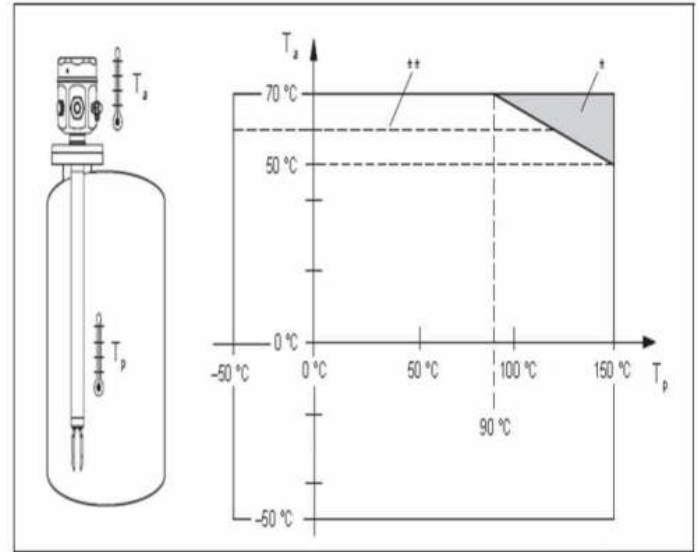
Order Code	1. FTL51H-AME2JD4G4A
Serial No	1. Serial No- J601B30129

Application Note

Process/Application Details	<p>1-Fluid - Hot water in De-super Heater</p> <p>2 Process Temperature - 150 Deg C</p> <p>3 Process Pressure - 2 Bar G</p>
Challenge/ Problem Description:	<p>1. Customer was using our FTL51H-AME2DD4G4A and reported that this level switch failed after with in very short time of service.</p> <p>2. Due to High Temperature the instrument was failing with in very short time. Instrument starts giving false alarm.</p>
Installation Details with Sketch/Schematic/Photograph	<p>1. Tank Drawing and schematic diagram of steam and water flow are enclosed in the end of application note.</p>
Solution:	<p>1. Since the instrument was being used in a high temperature application i.e process temperature 150 Deg C. So, there are chances that electronic temperature can go beyond the ambient temperature limit of 50 Deg C at 150 Deg C Process Temp.</p>

Environment

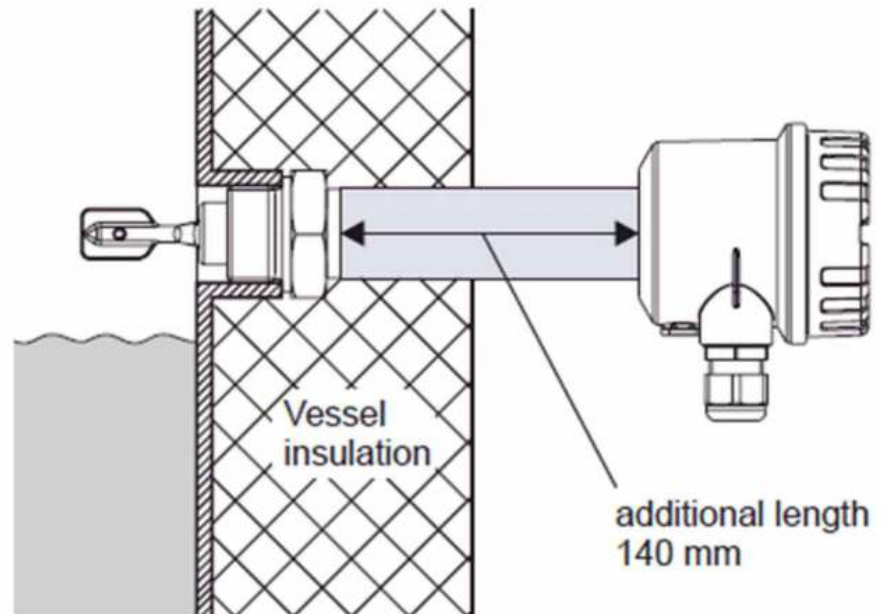
Ambient temperature range Permitted ambient temperature T_a at the housing depending on the medium temperature T_p in the tank:



* Additional temperature range for devices with a temperature spacer or pressure-tight feedthrough.

** Maximum ambient temperature with FELS0D/FEL50A in hazardous areas.

- 2.
3. Customer was advised to take the high temperature version instrument i.e. with temperature separator (long neck) order code **FTL51H-AME2JD4G4A**, as shown in below attached Picture.



- 4.
5. This switch with temperature separator version is working satisfactorily at site.

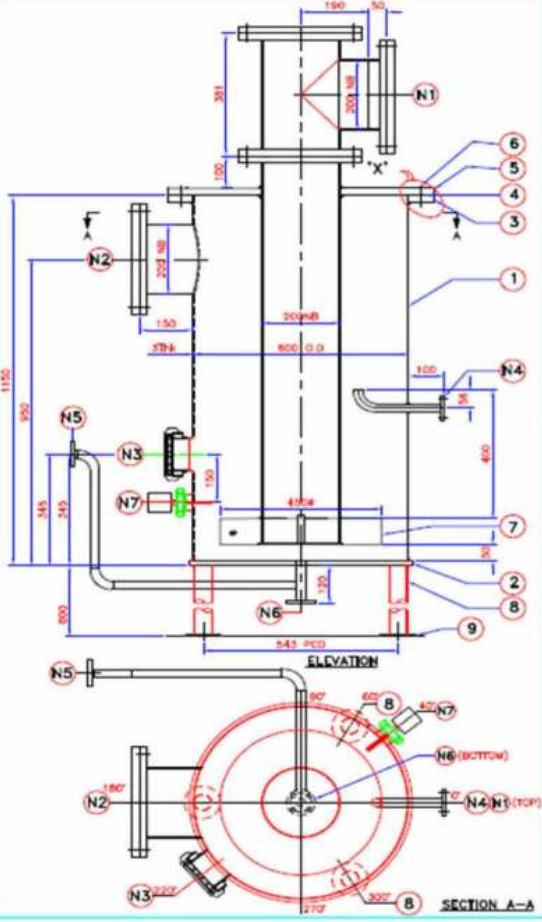
Customer Benefit

1. Reliable level control. Instrument is working satisfactorily and customer is now able to control water level in the De-super heater.

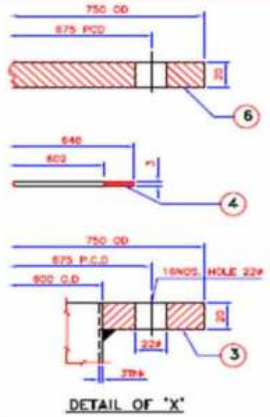
Statement of the customer

1. Customer is happy with reliable performance of the level switch.

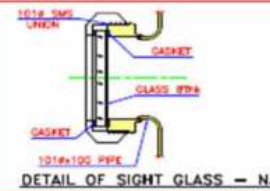
END OF APPLICATION NO



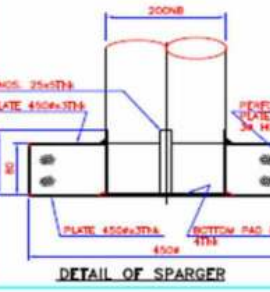
DETAIL OF 'X'



DETAIL OF SIGHT GLASS - N3



DETAIL OF SPARGER



DO NOT SCALE THE DRAWING IF IN DOUBT ASK.

REV.	DATE	ZONE	DESCRIPTION	REFERENCE	REV. BY	CRD. BY	APPROV. BY

NOZZLE SCHEDULE

NOZZLES Nos.	Qty.	DESCRIPTION	SIZE.	MAT.	REMARK
N1	1	STEAM INLET	200#N10K10	AISI 304	ANG B=16.5, 150# Flg.
N2	1	STEAM OUTLET	200#N20K10	AISI 304	ANG B=16.5, 150# Flg.
N3	1	8IN GLSS	101#	AISI 304	WITH SMS UNION
N4	1	OVERFLOW	25#N40K10	AISI 304	ANG 150# Flg.
N5	1	WATER INLET	20#N50K10	AISI 304	ANG 150# Flg.
N6	1	DRAIN	20#N60K10	AISI 304	ANG 150# Flg.
N7	1	LEVEL SWITCH WITH FORKE TYPE	514 DN	AISI 304	EMH - MAKE

NOTES:-

- ALL DIMENSIONS ARE IN MM, UNLESS OTHERWISE SPECIFIED.
- ALL WELDING OF SS TO SS WILL BE DONE BY TIG METHOD.
- WELDING OF INNER SHELL JOINTS WILL BE DONE FROM INSIDE, AS WELL AS OUTSIDE.
- ALL WELD JOINTS AND VISIBLE WELDING JOINTS WILL BE GRIND SMOOTH AND FINISHED TO 220 GRI.
- ALL EXTERNAL AND INTERNAL SURFACE TO BE POLISHED TO 220 GRI.

TEST:-

- DP TEST FOR ALL WELDING JOINTS
- PRESSURE TEST 4.5 kg/cm²

AS BUILD DWG

REFERENCE	ITEM	DESCRIPTION	MAT.	QTY.	REMARK
6	1	LEG INBDE PLATE	AISI 304	3	Ø 75#
8	1	LEG	AISI 304	3	Ø 75#x122
9	1	SPARGER SHEEL	AISI 304	1	-
10	1	BOLT & NUTS	AISI 304	16	M20x75Lg
3	1	TOP COVER	AISI 304	1	Ø 75#
4	1	GASKET	NITROBENE	1	Ø 75#
1	1	TOP FLANGE	AISI 304	1	Ø 75#
2	1	BOTTOM FLAT	AISI 304	1	Ø 200x180#
1	1	SHELL	AISI 304	1	Ø 600x275#

STEAM DESUPERHEATER
Qty: 4 Nos

