Liquid Level Transmitter

Data Sheet

Type: HBLT-A1

Purpose:

HBLT-A1 capacitive liquid level transmitters are used to measure liquid levels in refrigerant vessels, receivers, accumulators, or other similar pressure vessels. Available in various lengths and factory calibrated for ammonia (R717).

Contact Information:

Parker Hannifin Corporation
Refrigerating Specialties Division
2445 South 25th. Avenue
Broadview, IL 60155-3891

phone (708) 681-6300
fax (708) 681-6306

www.parker.com/refspec

Product Features:

- Suitable for ammonia, CO_2, and halocarbon refrigerants
- *"Plug and Play"* no calibration required when installed on ammonia systems
- *"Service Friendly"* Electronic head and probe can be separated without emptying the vessel
- *"Improved Calibration"* Range/signal output can be adapted to suit the actual application
- Optional LED bargraph for indication of liquid level
- Damping of output signal available

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Technical Data

- Liquid Temperature Range:
  -60°C to 120°C (-76°F to 248°F)

Note:
When using in refrigerant with temperatures above 60°C (140°F) a minimum calibration must be carried out after 1 week of operation. Subsequently a minimum calibration once a year is needed

- Ambient Temperature Range:
  During operation
  -25°C to 55°C (-13°F to 131°F)

- Max Working Pressure:
  100 bar (1450 psig)

- Connection:
  ¾" NPT

- Supply Voltage and Load:
  24V AC/DC ±10% (50/60 Hz) 1.5 W

- Electrical Connection:
  4-pole din connector

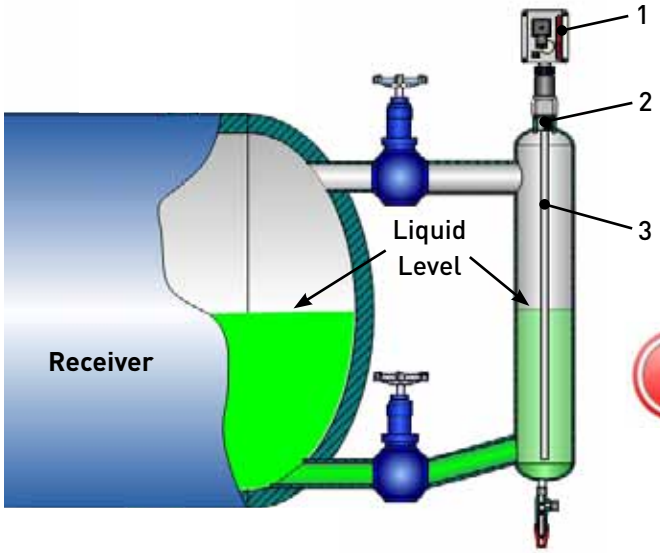
- Maximum Load Resistance:
  500 ohm

- Signal Output:
  4 - 20 mA

- Enclosure:
  IP65

- Approvals:
  EMC Emission EN61000-3-2
  EMC Immunity EN61000-4-2

Note:
Probes less than 305mm (12") are not compatible with halocarbons. For halocarbons requiring probes less than 305mm (12") use HBLC liquid level control sensors.



To avoid accumulation of oil in the stand pipe a 10 degree slope on connection pipe is recommended.

Diagram: Liquid Level Transmitter (HBLT-A1)

No.	Part Description	Material
1	Electronic Head	Coated Cast Aluminum
2	Thread	S.S. AISI 303
3	Reference Pipe	S.S. AISI 304
-	Inner Electrode	PTFE

Probe Length		Measuring Range	
mm	Inch	mm	Inch
152	6.0	79	3.13
203	8.0	130	5.13
305	12	232	9.13
389	15	316	12.43
488	19	415	16.33
587	23	514	20.23
762	30	689	27.13
889	35	816	32.13
1143	45	1070	42.13
1397	55	1324	52.13
1651	65	1578	62.13
2159	85	2086	82.13
2667	105	2594	102.13
3048	120	3029	119.25

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