

# Liquid Level Control Sensor

Data Sheet

Type: HBLC-V/C



## Purpose:

The liquid level control sensor, HBLC, is a stand-alone sensor with control function built-in to control refrigerant levels in high and low pressure condensers, evaporators and chillers. The HBLC sensor works in conjunction with a 4-20mA modulating control or solenoid valve.

This compact, cost effective sensor design, provides reliable and accurate detection of refrigerant levels in equipment.



## Contact Information:

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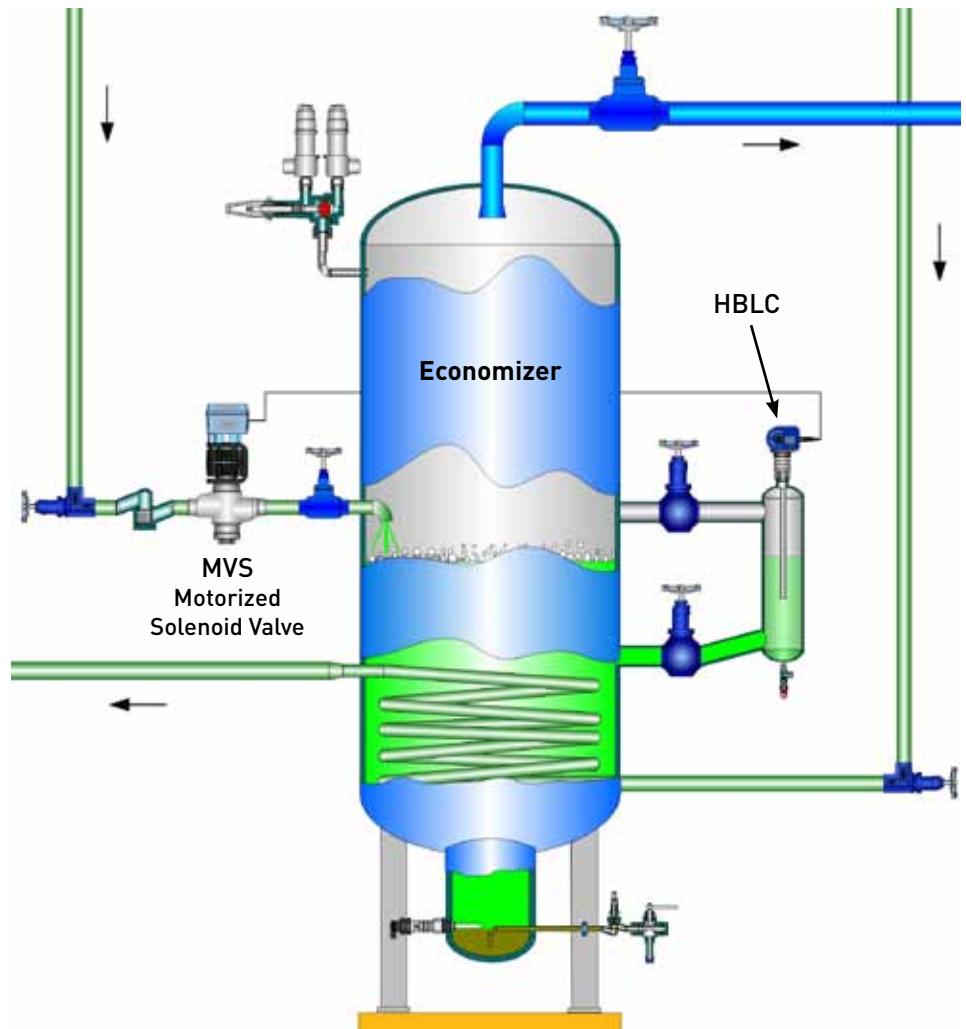
## Product Features:

- Suitable for ammonia and water/brine (HFC and CO<sub>2</sub> types are available on request)
- Stand alone microprocessor sensor with controller built in for automatic liquid management
- Easy setup and change of timer and alarm settings
- "Service Friendly" Split design for easy mounting, maintenance and remote programming without depressurization
- Unaffected by foam, splashing and coating
- Resists high pressures and temperatures
- LED indication for liquid, alarm and power
- Savings on installation, cost and time

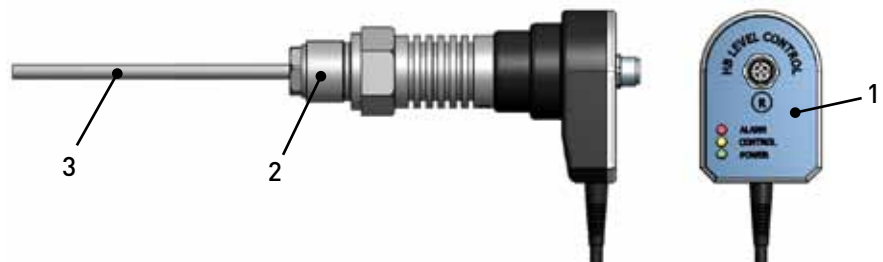
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## Technical Data

- Power Supply: 24V DC  $\pm$ 10%
  - Analog Output: ① 4 - 20mA
  - Note:** Cable connection for solenoid or motor valve.
  - Current Consumption: Max 30mA
  - Transistor Output: ① On/Off, PNP or NPN, Max 1A
  - Output Function: ① Normally Open (NO) Normally Closed (NC)
  - Potential Free Output: ① On/Off, Max 1A (24W)
  - Electronic Connection: M12, 5 pin
  - Cable Length (HBOC-V): 3m (118")
  - Ambient Temperature: -20°C to 50°C (-4°F to 122°F)
  - Liquid Temperature: -50°C to 100°C (-58°F to 212°F)
  - Max Operating Pressure: 100 bar (1450 psig)
  - LED Indication
    - Liquid (yellow)
    - Power (green)
    - Alarm (red)
  - Connection: 3/4" NPT
  - EMC Test: EN Industrial
- ① Depending on type and configuration



**Diagram:** Liquid Level Control Sensor (HBLC)



No.	Part Description	Material
1	Electronic Controller, Head	GF BLK, Nylon 6 (PA), Glass Fiber
2	Thread	S.S. AISI 303
3	Inner Electrode	PTFE/S.S AISI 303