

Liquid Level Controller

Data Sheet

Type: HBLT-C1 & HBLT-C1-ENC



Purpose:

The HBLT-C1 provides remote liquid level management for industrial refrigeration systems. It can be used in connection with the HBLT-A1 analogue level probe, HBS switches or other similar sensors with a 4 - 20 mA.

Pump separators, inter coolers, economizers and receivers installed with an analogue sensor provide a current signal proportional to the vertical liquid level. The HBLT-C1 controller serves as a stand alone programmable device, which converts the return signal and performs a 4 - 20 mA output and three programmable relay functions.



HBLT-C1: Controller only

HBLT-C1-ENC: HBLT-C1 controller with enclosure and transformer

Contact Information:

Parker Hannifin Corporation
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2445 South 25th. Avenue
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Product Features:

- Compatible with HB liquid level transmitters (HBLT)
- Two level alarms (high and low)
- Pump status indicator
- Three digital display probe level output
- Valve position feedback with five visual LEDs
- Available with or without enclosure (see back of data sheet)
- Enclosure is resistant to atmospheric elements and UV rays



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Technical Data

HBLT-C1

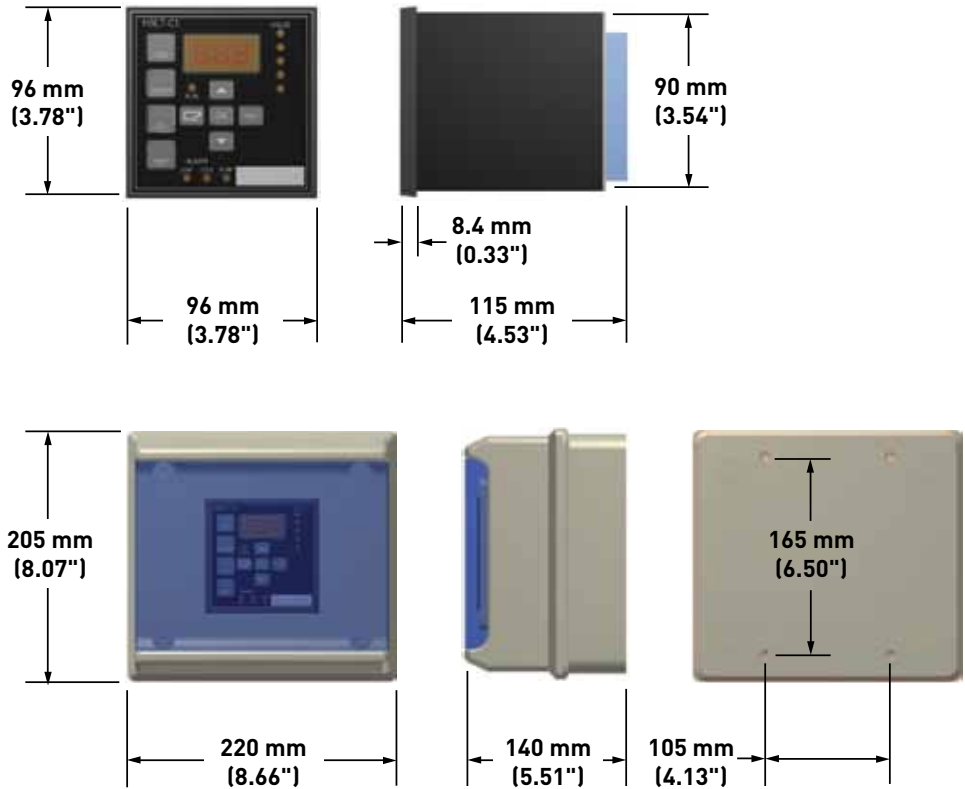
- Mounting
 - Panel Mounting
- Input Power:
 - 24V AC/DC $\pm 10\%$
- Frequency:
 - 50/60 Hz
- Current Draw:
 - Max 40 mA
- Inputs:
 - Sensor analogue input - 4 -20 mA
 - Feedback analogue input - 4 -20 mA
 - Relay function - Alarm (max level)
 - Relay voltage - 5 - 25V DC
- Outputs:
 - Analogue output - 4 -20 mA
 - Load - 3 A/24V DC
 - Relay output - @24V AC/DC: 3 x 3A
 - @110V AC: 3 x 5A
 - @220V AC: 3 x 5A
 - Solid State Output - NC/NO, 1 A/24V AC/DC
- Ambient Temperature Range:
 - 20°C to 70°C (-4°F to 158°F)
- Relative Humidity Range:
 - 20% to 80%
- Display
 - Level Probe - 3 digits red LEDs
 - Alarm - Green & red
 - Programming - Front
 - Updates - Once per second
 - Valve position - 5 LEDs
- Protection Rating:
 - IP45
- Approvals:
 - EMC Emission EN61000-3-2
 - EMC Immunity EN61000-4-2
 - GOST-R No. 0903044

HBLT-C1-ENC

- Mounting
 - Wall Mounting
- Input Power:
 - 100 - 240V AC (Mean Well RS-35-24)
- Protection Rating:
 - IP65



Diagram: HBLT-C1 Controller, Level Probe and MVS Motorized Valve



Dimensional Diagram: HBLT-C1 (above) & HBLT-C1-ENC (below)