

BLH



Weight Controller



FEATURES

- Designed for NIST Handbook 44 compliance
- Canadian weights and measures and NTEP CoC
- Rate-by-weight (Mass Flow) operation
- Expansion slot for A-B remote I/O, Modbus Plus, or future fieldbus
- FM and CSA approved
- Up to 8 setpoint relay outputs
- · Optional 16 bit analog output

DESCRIPTION

LCm-200 'Expert' Series Controllers are specifically designed for Class III and Class IIIHD scale systems. Each unit meets NIST Handbook 44 (NTEP) and Canadian Weights and Measures legal-for-trade requirements. Tamperproof sealing combined with configuration menu locks ensures maximum security for LCm-200 based systems.

LCm-200s are compatible with all strain gage type load cells and interface easily with any PLC, PC, or DCS based supervisory control system. High performance 'Expert' features include Plug-n-Weigh® quick calibration, rate-by-weight mass flow measurement, continuous on-line diagnostics, and

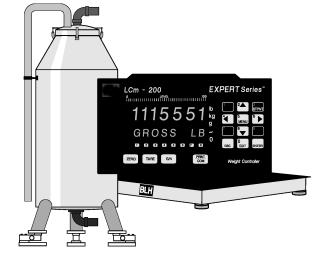
CONFIGURATION

dynamic digital filtering. Process control options provide high resolution 16 bit analog output, eight solid state setpoint relay outputs, and various communication standard protocols such as Allen-Bradley Remote I/O, Modbus Plus, Modbus RTU, and Fisher Provox.

The integral Safe-Weigh® Software Operating System encompasses over 50 years of BLH application expertise. On-line diagnostics continuously monitor system performance and alert operating personnel to potential problems before they happen.

APPLICATIONS

- Inventory systems
- Custody transfer scales
- Calibration standards



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SPECIFICATIONS

Performance

Resolution **Displayed Resolution** Conversion Speed **Displayed Sensitivity** Noise

Full Scale Range Dead Load Range Input Impedance **Excitation Voltage** Linearity Software Filter Step Response Temp Coefficient Zero Temp Coefficient Span

Environment

Operating Temp Storage Temp Humidity Voltage Power

Enclosure

Dimensions std. NEMA 4/4X, 12 (opt)

Materials

overlay meets 94V-O rating
high intensity vacuum
fluorescent
7 - 0.59 in. high alphanumeric
8 - 0.39 in. high alphanumeric

1,048, 576 total counts

0.05 microvolts per count

0.4 microvolt per count (min. filt.

multi variable up to 10,000 msec

- 10 to + 55°C (15 to 131°F) - 20 to + 85°C (- 5 to + 185°F)

117/230Vac ± 15% @ 50/60Hz

5 to 90% rh non-condensing

4.63 x 8.40 x 6.5 in. HWD

8.5 x 13.5 x 10.45 in. HWD

700.000 counts

50 milliseconds

100% full scale

10 mohms min

one conversion

15 watts max

± 2ppm/°C

± 7ppm/°C

10Vdc at 250mA ± 0.0015% full scale

setting) 3.5mV/V

Remote Digital Inputs (contact closure or dc logic compatible)

Closed (Momentary)	logic low
Open	logic high
Cable Length	100 feet maximum

DC Setpoint Outputs - 8 (Standard)

open collector (current sinking)
5 - 35Vdc
1.2Vdc @ 40mA or 0.8Vdc
@1mA
0.04µA @ 40Vdc
external supply required

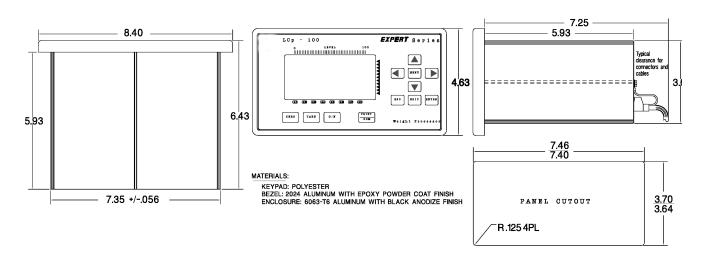
AC Setpoint Outputs - 8 (Optional)		
Туре	triac	
Operating Voltage	12 - 240Vac	
AC Frequency	20 - 500Hz	
ON State V-Drop	1.2VRMS	
Min-Max Load Current	5mA - 1A	
Leakage Current	1mA @ full rated load voltage	
Power	external supply required	
Communications (Standa		
Serial RS-422/485	full or half duplex ASCII, printer,	
	Provox, Modbus, or BLH	
Devite	network protocols	
Parity	odd, even, or none (selectable) 0 - 99	
Addressing	0 - 99	
Special Interfaces (Optional)		
Allen-Bradley	Remote I/O = 1/4 logical rack	
Modbus RTÚ	slave	
Fisher Provox	CL6921 weigh scale interface	
	card	
Modbus Plus	peer-to-peer	
Analog Output (Optional)		
Conversion	16 bit D-A	
Current Selections	4-20 or 0-20mA @ 600Ω,	
Ourient Gelections	0-24mA @ 500Ω	
Approvals		
Can. Weights/Meas.	Class III/IIIHD nmax 10000/20000	
NTEP	Class III/IIIHD nmax 10000/20000	
CSA	C22.2 (all applicable sections)	
FM (Factory Mutual)	3611	
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DIMENSIONS



BLH is continually seeking to improve product quality and performance. Specifications may change accordingly.



Vishay Precision Group

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All product specifications and data are subject to change without notice.

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