

Load Cell Central

1-800-LOADCEL

Portable Handheld Load Cell Display Model: AHM

The Load Cell Central AHM is a completely portable strain gauge battery powered digital indicator, packaged in a small, rugged IP65 / NEMA 4 enclosure.

The six-key control pad simplifies use. The AHM can store calibration data for two load cells or allow dual range setup (LB to KG, Grams to Kilograms etc). The menu options offer the ability to tailor the instrument's response to the application. Gross, Net, Peak and Trough measurements are easily selected. Display symbols indicate which range or sensor has been selected. There is also a window, to insert a legend, describing each range. Once these parameters are set, it provides the user with the simplest of indicators.



Features

- Powered by 2 AA batteries
- Portable handheld precision instrument weighing only 0.6 pounds
- Tactile keyboard, with dual range selection, peak/valley hold, gross/net and on/off controls
- Microprocessor based, allowing single pass calibration facility
- Dual range capability
- Input range of up to 50mV/V
- Environmentally sealed to IP65 / NEMA 4
- 7½ digit LCD display, with battery, peak, trough, net, and shunt cal indication
- 1 year Warranty
- Adjustable auto sleep

Specifications

Description	Minimum	Typical	Maximum	Units
Strain Gauge				
Non linearity		0.001	0.005	% FS
Internal resolution		24		Bits
Resolution at 1Hz sample rate		250,000		Counts/divisions
Resolution at 10Hz sample rate		65,000		Counts/divisions
Temperature effect on zero		0.0002	0.0007	+/--%FS/°C@2.5mV/V
Temperature effect on span		0.0002	0.0005	+/--%°C
Offset stability		0.002	0.008	+/--%FS from original offset at any time
Gain stability		0.003	0.01	% per annum
Excitation voltage	4.8	5	5.2	Vdc
Strain gauge impedance	85	350	5000	Ohms
Sensitivity full range, setting 1	-5		+5	mV/V
Sensitivity full range, setting 2	-50		+50	mV/V

Load Cell Central
216 Main St. / PO Box 91
Monroeton, PA 18832
Web: www.800loadcel.com

Toll Free: 1-800-562-3235
Ph: 1-570-265-5015
Fax: 1-570-265-5148
Email: sales@800loadcel.com

Load Cell Central

1-800-LOADCEL

Performance

Input Type	Strain Gauge Full Bridge Sensors
Internal Battery	2 x AA Alkaline, access via sealed rear compartment, batteries are included.
Battery Life	With 350 Ohm sensor continuously on 35 hours or up to 5000 hrs in low power mode
Update Rate	10mS to 2s Including Peak/Valley Hold capture rate

Indication

Display Type	7½ digit LCD display, 0.35" (8.8mm) high digits
Display Resolution	1 part in 250,000 at 1s update
Annunciators:	Low battery warning, peak, trough, hold, net, shunt cal, range, by symbols on LCD display

Control Variables

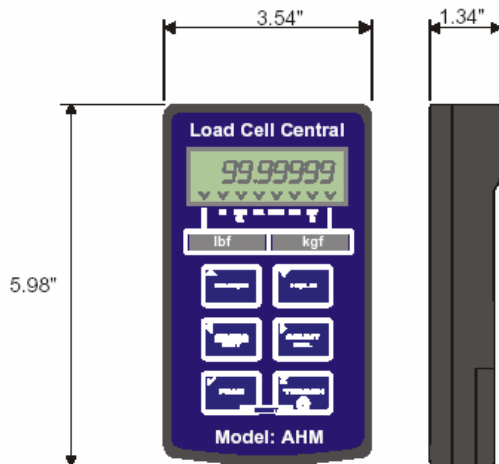
Front Panel User Keys	Tactile Keys for:- ON/OFF/TROUGH Switches AHM power on/off/displays trough reading RANGE Selects between two ranges, or two transducers PEAK displays peak reading HOLD Switches Hold on/off GROSS/NET Toggles between gross and net readings SHUNT CAL Shunt calibration mode (100k resistor)
Settable Parameters	Display Resolution Rate 0.5, 1, 3, 10, 25Hz Low power modes
Calibration	By front panel keypad buttons protected by key sequence

Physical

Electrical Connection	5 pin Binder Socket (mating plug included)
Dimensions	3.54" x 5.98" x 1.34" (90 x 152 x 34mm depth)
Weight	0.6 pounds
Legends	Insert legend labels for engineering unit identification

Environmental

Storage temperature	-40 to +65°C (excluding batteries)
Operating temperature	-10 to +50°C (excluding batteries)
Environmental Rating	IP65 / NEMA4 (when mating plugs are fitted)
Enclose Type	ABS, dark grey (black leather carry case)



Options

Easy to use PC data acquisition program, exports weight and time & date information directly to an Excel file.
Rechargeable batteries and Charger

Ordering Information

Ordering Code	Description
AHM	Portable Display Load Cell/Force Indicator & mating connector, 10' RS232 cable with DB9 connector, Leather carry case.
Weightlogger-AHM	RS232 Data logging software.
AHM-RB	Internal rechargeable battery option

Specifications are subject to change.

Load Cell Central
216 Main St. / PO Box 91
Monroeton, PA 18832
Web: www.800loadcel.com

Toll Free: 1-800-562-3235
Ph: 1-570-265-5015
Fax: 1-570-265-5148
Email: sales@800loadcel.com