Load Cell Central

1-800-LOADCEL

Model: AHM

Portable Handheld Load Cell Display

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, g to kg, etc.). The menu options offer the ability to tailor the instrument's response to the application. Gross, net, peak, and valley 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 lbs
- 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 50 mV / V
- Environmentally sealed to IP65 / NEMA 4
- 7 ½ digit LCD display with battery, peak, valley, net, and shunt cal indication
- 1 year warranty
- Adjustable auto sleep

Specifications:

Description	Minimum	Typical	Maximum	Units
Non-Linearity		0.001	0.005	% FS
Internal Resolution		24		Bits
Resolution at 1 Hz Sample Rate		250,000		Counts / divisions
Resolution at 10 Hz Sample Rate		65,000		Counts / divisions
Temperature effect on zero		0.0002	0.0007	+/-% FS / °C @ 2.5 mV / 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	5,000	Ohms
Sensitivity full range, setting 1	-5		+5	mV / V
Sensitivity full range, setting 2	-50		+50	mV / V

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Performance

Input type: Strain gauge full bridge sensors
Internal Battery: 2 AA alkaline, access via sealed rear

compartment. Batteries are included.

Battery Life: 35 hrs with 350 Ω sensor

continuously on (or up to 5,000 hrs in

low power mode)

Update Rate: 10 ms to 2 s including peak / valley

hold capture rate

Control Variables

Front Panel Tactile Keys

User Keys: For:

On / Off / Trough Switches AHM power on

/ off / displays trough ("valley") 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 Ω resistor)

Settable

Parameters Display Resolution

Rate 0.5, 1, 3, 10, 25 Hz Low power modes

Calibration By front panel keypad buttons protected by

key sequence

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

Environmental

Storage Temp -40 to 65°C (excluding batteries)

Operating Temp -10 to 50°C (excluding batteries)

Environmental IP65 / NEMA4 (with mating plugs fitted)

Enclosure Type ABS, dark grey (black leather carry

casel

Physical

Electrical 5 pin binder socket (mating plug included)

Dimensions 3.54" x 5.98" x 1.34" (90 x 152 x 34 mm depth)

Weight 0.6 lbs

Legends Insert legend labels for engineering unit identification

Options

Easy to use PC acquisition program exports weight and time & date information directly to an Excel file
Rechargeable batteries and charger

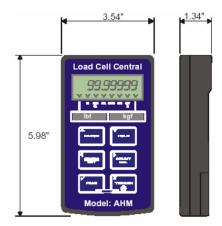
Indication

Display Type $7 \frac{1}{2}$ digit LCD display, 0.35" (8.8 mm)

high digits

Display Resolution
Annunciators

1 part in 250,000 at 1 s update
Low battery warning, peak, trough,
hold, net, shunt cal, and range by
symbols on the LCD display



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