

LOW PROFILE COMPRESSION LOAD CELLS WITH HIGH SPEED USB OUTPUT STANDARD AND METRIC MODELS

Compression
0 to 50 to 0 to 400,000 lbf
0 to 25 to 0 to 5000 kgf



LC411-5K-USBH,
shown smaller than
actual size.



2 m (6')
integral
USB cables
connects
directly to
your PC.

LC411/LCM411-USBH Series

- ✓ 1000 Readings per Second
- ✓ Dual Bridge Models Available
- ✓ USB 2.0 and Below Compatible
- ✓ Standard USB Connector Termination
- ✓ Powered Completely by the USB Port
- ✓ All Stainless Steel for Harsh Industrial Environments
- ✓ 5-Point NIST Traceable Calibration Provided
- ✓ Built-In 59K Shunt Cal Resistor



LC411-50K-USBH,
shown smaller than
actual size.

High Speed
1000 Updates per
Second

The LC411-USBH Series high speed USB load cells connect directly to your computer. Free PC software makes data logging and charting your readings a simple task. Also included are .NET APIs and a command set for command line access. No additional power supply is needed. The load cell is powered directly from your computer's USB port.

SPECIFICATIONS

Excitation: From USB port

Output: Digital (USB 2.0)

5-Point Calibration: Included
0%, 50%, 100%, 50%, 0%

Note: Models > 300,000 lbf are calibrated at 300,000 lbf. Full scale calibrations above 300,000 lb by quotation only.

Response Time: Up to 1 ms;
non-impact loading

Linearity:
≤3000 lb: ±0.13% full scale
>3000 lb: ±0.10% full scale

Hysteresis:
≤3000 lb: ±0.12% full scale
>3000 lb: ±0.10% full scale

Repeatability: ±0.05%

Zero Balance: ±1.0% full scale

Operating Temperature:

-40 to 80°C (-40 to 176°F)

Compensated Temperature:

16 to 71°C (60 to 160°F)

Thermal Effects:

Zero: 0.0045%FSO/°C (0.003%FSO/°F)

Span: 0.006%FSO/°C (0.004%FSO/°F)

Safe Overload: 150% full scale capacity

Ultimate Overload: 300% full scale capacity

Full Scale Deflection: 0.025 to 0.076 mm
(0.001 to 0.003") typical

Electrical Connection: 1.8 m (6') cable
with standard USB connector

Protection Class: IP65

Dimensions: mm (inch)

CAPACITY		D	D1	H	H1	K	G	I
lb	kg							
STANDARD MODELS								
50 to 10,000	23 to 4537	66 (2.62)	19.05 (0.75)	32 (1.25)	2.3 (0.09)	6.4 (0.25)	56 (2.18)	6-40 UNF-2B
15,000 to 25,000	6806 to 11,343	83 (3.25)	24.89 (0.98)	41 (1.62)	2.3 (0.09)	6.4 (0.25)	69 (2.71)	10-32 UNF-2B
50,000 to 75,000	22,686 to 34,029	127 (5.00)	41.15 (1.62)	64 (2.50)	3.0 (0.12)	6.4 (0.25)	105 (4.12)	5/16-24 UNF-2B
100,000	45,372	152 (6.00)	44.45 (1.75)	89 (3.50)	3.8 (0.15)	9.4 (0.37)	124 (4.87)	7/16-20 UNF-2B
200,000	90,744	203 (8.00)	69.85 (2.75)	121 (4.75)	4.6 (0.18)	13 (0.50)	164 (6.43)	5/8-18 UNF-2B
300,000	136,116	229 (9.00)	76.20 (3.00)	121 (4.75)	4.6 (0.18)	16 (0.63)	191 (7.50)	3/4-16 UNF-2B
400,000	181,488	254 (10.00)	76.20 (3.00)	121 (4.75)	6.4 (0.25)	19 (0.75)	216 (8.50)	7/8-14 UNF-2B
METRIC MODELS								
55 to 11,023	25 to 5000	66 (2.62)	76.20 (3.00)	32 (1.25)	2.3 (0.09)	6.4 (0.25)	56 (2.18)	M4 x 0.7

STANDARD MODELS

To Order

CAPACITY		MODEL NO.
lbf	kgf	
50	23	LC411-50-USBH
100	45	LC411-100-USBH
250	114	LC411-250-USBH
500	227	LC411-500-USBH
1000	455	LC411-1K-USBH
1500	682	LC411-1.5K-USBH
2000	909	LC411-2K-USBH
3000	1361	LC411-3K-USBH
5000	2269	LC411-5K-USBH
10,000	4537	LC411-10K-USBH
15,000	6806	LC411-15K-USBH
20,000	9074	LC411-20K-USBH
25,000	11,343	LC411-25K-USBH
50,000	22,686	LC411-50K-USBH
75,000	34,029	LC411-75K-USBH
100,000	45,372	LC411-100K-USBH
200,000	90,744	LC411-200K-USBH
300,000	136,116	LC411-300K-USBH
400,000	181,488	LC411-400K-USBH

Comes complete with 5-point NIST traceable calibration, cable with USB connector, and free downloadable PC software.

Dual bridge models available, add suffix “-DUAL” to model number and additional cost.

Ordering Example: LC411-1K-USBH, 1000 lbf capacity load cell with USB output.

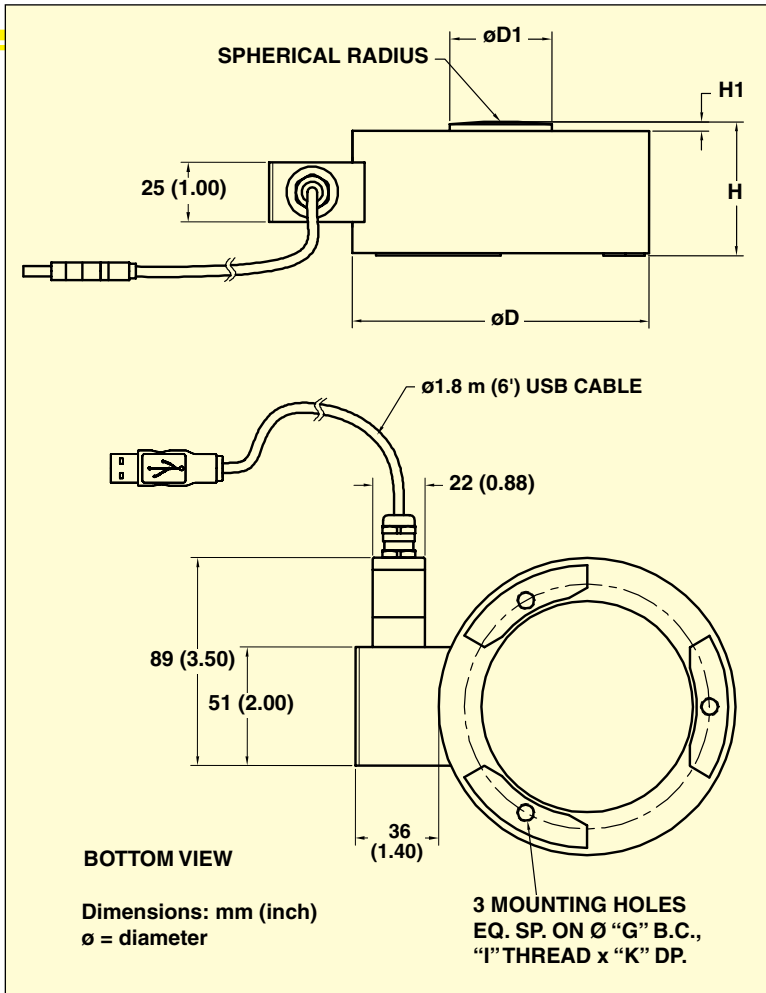
METRIC MODELS

CAPACITY		MODEL NO.
kgf	lbf	
25	55	LCM411-25-USBH
50	110	LCM411-50-USBH
100	220	LCM411-100-USBH
150	331	LCM411-150-USBH
250	551	LCM411-250-USBH
500	1102	LCM411-500-USBH
750	1653	LCM411-750-USBH
1000	2205	LCM411-1K-USBH
1500	3307	LCM411-1.5K-USBH
2500	5512	LCM411-2.5K-USBH
5000	11,023	LCM411-5K-USBH

Comes complete with 5-point NIST traceable calibration certificate, cable with USB connector, and free downloadable PC software.

Dual bridge models available, add suffix “-DUAL” to model number and additional cost.

Ordering Example: LCM411-1K-USBH, 1000 kgf capacity metric load cell with USB output.



FREE OMEGA® USBH Downloadable Software!

OMEGA is excited to announce the release of a major software update for USB Transducers! The fresh look and added features add even more value and flexibility to your transducer's performance.

Free OMEGA PC software takes the data from the transducer directly to the digital domain, turning your laptop or Windows® tablet (with USB connection) into a virtual meter, chart recorder, or data logger.

Also included are .NET APIs and a set for command-line access. Visit <ftp://ftp.omega.com/public/DASGroup/products/USBH/> to download your free copy.*

*Includes software to run TRH Central compatible devices.

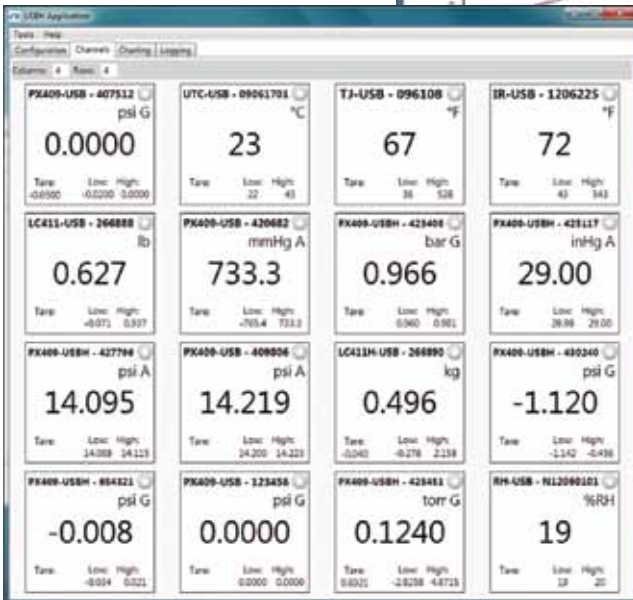
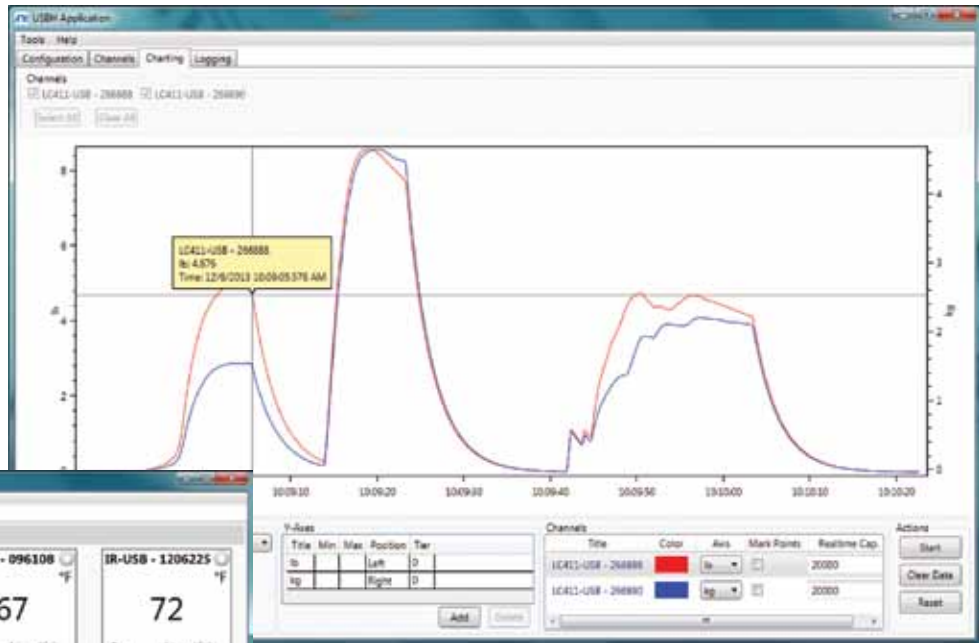
OMEGA USBH MAJOR SOFTWARE UPDATE

OMEGA is excited to announce the release of a major software update for USB Transducers! The fresh look and added features add even more value and flexibility to your transducer's performance. Free OMEGA PC software takes the data from the transducer directly to the digital domain, turning your laptop or Windows® tablet (with USB connection) into a virtual meter, chart recorder, or data logger. Also included are .NET APIs and a set for command-line access.

Visit <ftp://ftp.omega.com/public/DASGroup/products/USBH/> to download your free copy.*

* Includes software to run TRH Central compatible devices.

Charting Window – The addition of a charting window allows you to see your data graphed in real time. The Y axis is configurable to allow simultaneous graphing of multiple engineering units. You can output the image of your data to a png file.



Channels Window – Display data from all of your sensors simultaneously. Each channel has configurable user alarms, three data filters, tare, resettable low/high indication, and sample rates ranging from 30 minutes to 1000 Hz.

PX409-USBH-425117	
Units	psi
Count	10
Last	14.2349
Low	14.2349
High	14.2353

Logging Window – A new xls filetype output option presents preformatted data for readability. In addition, Live Statistics are displayed, including the sensor information, the start/stop time, the number of samples taken, the current reading, and the High/Low readings. With the logging window, you can capture your data for later analysis.

Support for Omega Pressure, Force, Temperature, and Humidity USB Transducers

One software package supports:

PX409-*-USB, PX409-*-USBH, LC411-*-USBH, TJ-USB, IR-USB, RH-USB and UTC-USB transducers.

