

# Model ULC Ultra Low Capacity Load Cell

Why the Interface model ULC Ultra Low Capacity Load Cell is the best in class:

- Proprietary Interface temperature compensated strain gages
- Highest performance gram cell in the world
- Overload protected
- Safe side load overload to 5X capacity
- Low extraneous load sensitivity
- Low temperature effect on zero (0.002%/°F)
- Capacity down to 50 grams
- Tension and compression

## STANDARD CONFIGURATION

5 ft Cable (ULC-nnN)

## OPTIONS

Extra Cable Length

## ACCESSORIES

Instrumentation

Consult factory for more technical information



## SPECIFICATIONS

### ACCURACY – (MAX ERROR)

Nonlinearity-% FS .....	±0.05
Hysteresis-% FS .....	±0.05
Nonrepeatability-% RO .....	±0.05
Creep, in 20 min-% (0.5N) .....	±0.1
(All Others) .....	±0.05

### TEMPERATURE

Compensated Range-°F .....	15 to 115
Compensated Range-°C .....	-10 to 45
Operating Range-°F .....	-65 to 200
Operating Range-°C .....	-55 to 90
Effect on Output-%/°F – MAX .....	±0.001
Effect on Output-%/°C – MAX .....	±0.002
Effect on Zero-% RO/°F – MAX .....	±0.002
Effect on Zero-% RO/°C – MAX .....	±0.004

### ELECTRICAL

Rated Output-mV/V (Nominal)(0.5N) .....	±1.5
(All Others) .....	±2.0
Zero Balance-% RO (horiz.) .....	±2.0
Input Resistance-Ohms .....	350+35/-3.5
Output Resistance-Ohms .....	350±3.5
Excitation Voltage – MAX .....	12 VDC
Insulation Resistance – Megohms .....	> 5000

### MECHANICAL

Calibration .....	Tension
Safe Axial Overload-% CAP .....	±1000
Safe Side Load Overload-% CAP .....	±500
Safe Load Axis Moment-% CAP x 1 in .....	±500
Cable length-ft .....	5

Natural Frequency/Deflection:

N	Deflection (inches)	Nat. Freq. (Hertz)
0.5	0.011	120
1	0.011	125
2	0.008	200

## DIMENSIONS

See Drawing	CAPACITY (N)* 0.5, 1, 2	
	inch	mm
①	0.42	10.6
②	0.99	25.1
③	4-40 UNC x 0.19 (4.8) Deep	
④	1.98	50.3
⑤	1.96	49.8
⑥	2.00	50.8
⑦	0.42	10.6
⑧	0.99	25.1
⑨	0.23	5.8
⑩	0.38	9.5
⑪	0.84	21.2
⑫	1/4-28 UNF x 0.32 (8.1) Deep	

\*1 Newton = 102 gram force

Note: Other sizes are available – contact factory

