

# 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

