CellScale
biomaterials testing

Eclipse

Ultra-low force measurement for precise materials testing

Discover the pinnacle of low-force measurements. The Eclipse force sensor delivers unmatched precision and accuracy for bench-top uniaxial testing, detecting forces as small as 40 µN. Built to last, this patent-pending technology features 10,000% overload protection for exceptional reliability. Paired with the UniVert testing platform, this is the ultimate low-force materials testing solution.

PRECISE, ROBUST, AND USER-FRIENDLY

- Paired with the CellScale UniVert S for a fully-featured materials testing platform
- Sensor full-scale capacities from 20mN - 2000mN
- Precision test fixtures for tension and compression tests
- Flexible design for custom applications

ECLIPSE

A force-sensing transformation

CellScale

- Compact design
- Quick sample placement
- Real-time results output
- Full integration with CellScale UniVert

ECLIPSE	
Capacity (mN)	20, 50, 100, 200, 500, 1000, 2000
Safe Overload (% of R.O.)	10,000
Hysteresis (% of R.O.)	± 0.08
Non-linearity (% of R.O.)	± 0.1
Non-repeatability (% of R.O.)	± 0.1
Temp. shift zero (% of R.O./°C)	±0.02

R.O. (Rated Output)

Applications include

- Hydrogels
- Fibers
- Bioinks
- 3D-bioprints
- Soft polymers
- Organoids
- Tissues
- Meshes
- Films

CellScale Biomaterials Testing has been the industry leader for precision biomaterials test systems for over 20 years. Our technologies are improving human health by helping researchers advance basic science, improve medical treatments, and further regenerative medicine research.

READY TO REVOLUTIONIZE YOUR MATERIALS TESTING?
Contact us today to schedule a demo!

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