Model 178

Revere

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Extensometer

FEATURES

- Strain gage based sensor
- Alloy steel construction
- 2 Bolt holes
- IP66 Hermetically sealed protection
- Optional
 - EEx ia IIC T4 Hazardous area approval

APPLICATIONS

- Tank weighing or level systems
- Agricultural equipment
- Rolling mill sensing
- Moment sensing
- Structural loading measurements
- Bridge structures

DESCRIPTION

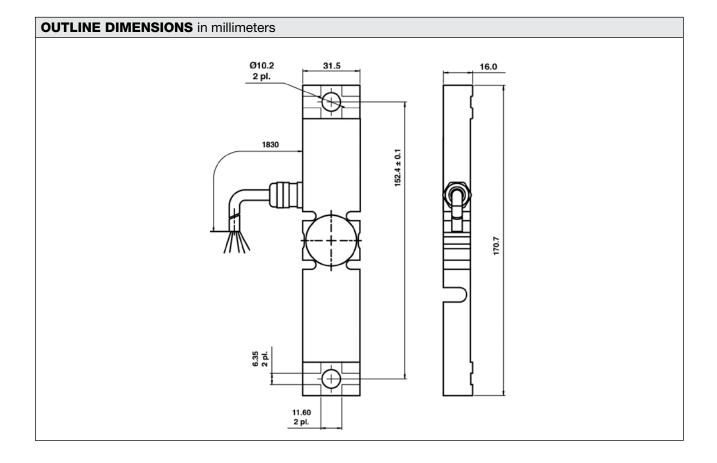
The Model 178 extensometer is a load sensor designed for force measurement on any load-bearing structure. This extensometer is a complete solution for weighing, level control, stress and fatigue monitoring. The design also



allows multiple sensors to be permanently mounted for more complex stress profiling and analysis.

The Model 178 extensioneter provides an ideal solution for non-intrusive level measurements for materials that are subject to uneven buildup, bridging, or sidewall collection. Also, liquids or wetted materials that are not suited for direct contact level measurement are an ideal application for the Model 178 extensioneter.

The design of the Model 178 makes it an excellent solution for retrofitting existing structures without compromising the integrity of the vessel or structure.





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Extensometer

| SPECIFICATIONS | | |
|-------------------------------|---------------|---------------------------|
| PARAMETER | VALUE | UNIT |
| Calibrated output | 1.7 | mV/V at 500 $\mu\epsilon$ |
| Overload capability (zero) | 300 | % of rated output |
| Overload capability (max) | 500 | % of rated output |
| Input resistance | 350±10 | Ω |
| Output resistance | 350±10 | Ω |
| Insulation resistance | >2000 | ΜΩ |
| Excitation, recommended | 10 | VDC |
| Excitations, range | 5–20 | VDC |
| Thermal effect on zero | 0.025 | ±% of FSO/°C |
| Compensated temperature range | -30 to +80 | C° |
| Construction | Painted steel | |
| Environmental protection | IP66 | |

All specifications subject to change without notice.



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