



# Sherborne Sensors

Clearly the first choice for precision .....

## Precision Measurement News

### February 2009



#### **SS6000 Series Bearing Force Load Cell**



Maintaining the correct tension in winding machinery is vital to achieve the highest quality of product and longevity of equipment. Slitting, winding,

coating, laminating and embossing processes all require accurate tension control systems. The SS6000 load cell is designed to simply integrate within the roll bearing system itself and monitor the vertical component of the force due to tension in the web or material being wound. Only the highest transducer quality resistance strain gauges are used within the construction of the SS6000 to ensure reliability under arduous operational conditions and allow easy integration within closed loop tension control systems.

It is vital in web tension applications that the transducer has minimal deflection to ensure that the web path is not disturbed and that the product will track properly. The SS6000 utilizes shear strain sensing that keeps deflection to an absolute minimum. The load cell must also respond quickly to tension changes. The SS6000 shear sensing technique ensures the highest possible resonant frequency ensuring rapid response to changing tension in the web. Manufactured from stainless steel for corrosion resistance, the SS6000 is fully compensated for the effects of temperature on the zero output and sensitivity, has high resistance to

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#### **Industry Leading 2-Year Warranty**



In order to provide customers with even greater value, flexibility and satisfaction, Sherborne Sensors has introduced an industry leading, comprehensive, 2-Year warranty

on its precision sensor products.

Our inclinometers, accelerometers, and force transducers are used worldwide in a variety of challenging military, civil and industrial applications. In many instances, sensors need to be purchased well in advance of their planned or expected use date, to allow for integration into higher order assemblies. In other ground and flight test situations, circumstances may lead to the sensor being on the shelf for several months prior to the actual test and use date. With conventional warranties, both of these circumstances can lead to the sensor having a very small warranty window, and even lead to the warranty expiring before initial use of the sensor. Having several decades of records in hand, Sherborne Sensors products continue to show exceptional out of

overload and shock, and is fully backed by Sherborne Sensors class leading 2-Year warranty.

Available in standard ranges of 2,000 to 5,000 kg (4,400 to 11,000 lbf) and custom ranges beyond this, the load cell has cylindrical ends for the direct mounting of bearings.

The SS6000 is an example of Sherborne Sensors engineered force sensing solutions. For customized force ranges and physical configurations to suit specific customer applications, please contact our applications department at: [applications@sherbournesensors.com](mailto:applications@sherbournesensors.com).

[SS6000 Series Data Sheet](#)

### Quick Links

[Contact us](#)  
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BS EN 9001:2000  
Cert No: QEC26007



Quality Endorsed Company  
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SAI Global



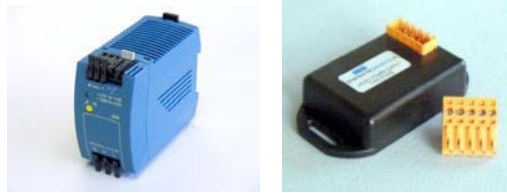
## Sherborne Sensors

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box performance and reliability. Our new 2-Year warranty, coupled with the availability of volume pricing discounts, offers our customers a unique competitive advantage, and reconfirms the confidence we have in the unsurpassed design excellence, precision, quality, and reliability of our products.

### 2-Year Warranty

## **New! Power Supply Modules**



Two new power supply modules have been introduced capable of supplying the regulated  $\pm 15\text{VDC}$  excitation voltage required for many of the servo inclinometers and accelerometers manufactured by Sherborne Sensors.

The XT-0102 module accepts an unregulated dc supply from 10 to 32Vdc. The XT-0103 is 85 to 264VAC line powered, and is internally fused; DIN Rail Mounting, (DIN Rail included). Both units feature continuous overload, short, and open circuit protection. Please contact the factory or your local representative for additional technical, pricing and delivery information.

[XT-0102 & XT-0103 Data Sheet](#)