

## Model 430 SpeedVue™

### Laser Speed Sensor

- *Precise RPM detection with laser sensor*
- *Advanced logic automatically locates shaft speed\**
- *No reflective tape required*
- *Works equally well on clean or dirty shafts*

\* when used with CSI Model 2120A and 2130 analyzers



*SpeedVue Laser Speed Sensor as used with Model 2120A RBMconsultant*



*SpeedVue Laser Speed Sensor (close-up)*

The SpeedVue Model 430 Laser Speed Sensor (part number A0430LS) offers a ground-breaking new technology for the measurement of turning speed on rotating equipment. It uses a laser beam, in conjunction with an advanced signal processing algorithm to measure turning speed without requiring any special markings on the shaft. Readings are typically possible from up to 30 ft. away without reflective tape, or up to 100 ft. away with reflective tape. SpeedVue is intended for use with the Model 2120A Portable RBMCONSULTANT®. The user

connects the SpeedVue Laser Speed Sensor to an auxiliary input on the analyzer, shines the laser beam on an exposed area of the rotor, and the 2120A RBMCONSULTANT® will automatically detect, display, and incorporate turning speed into the machine measurement. This information is critical when establishing a new database as well as for general machinery diagnostics. Applications for the SpeedVue Laser Speed Sensor include measurement of turning speed on motor shafts, fans, paper rolls, pulleys and sheaves. It can also be used to measure the speed of paper felts.

## Technical Specifications

Operating Distance:	30 ft (9 m) without reflective tape, 100 ft (30 m) with reflective tape
Laser Class:	FDA Class IIIa, < 5mw, 650 nm, IEC Class 3B (International)
Temperature Range:	15-120 deg F (-10 to 50 deg C)
Accuracy:	+/- 0.05 %
Resolution:	5 digit display
Dynamic Range:	2 - 120,000+ RPM
Input Voltage:	5.0 - 7.2 VDC (supplied by analyzer)
Output Voltage:	Analog Voltage Waveform (+/- 2.5 volt max)
Weight:	0.43 lbs.
Compliance:	FDA, IEC, CE
Certification:	NIST Certification upon request

**CAUTION:** Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.



**Emerson Process Management**  
**Asset Optimization Division**  
835 Innovation Drive  
Knoxville, Tennessee 37932  
T (865) 675-2400  
F (865) 218-1401  
[www.mhm.assetweb.com](http://www.mhm.assetweb.com)

The contents of this publication are presented for informational purposes only, and while every effort has been made to ensure their accuracy, they are not to be construed as warranties or guarantees, express or implied, regarding the products or services described herein or their use or applicability. All sales are governed by our terms and conditions, which are available on request. We reserve the right to modify or improve the designs or specifications of our products at any time without notice.

Emerson Process Management, PlantWeb, AMS, CSI logo and Machinery Health are marks of one of the Emerson Process Management family of companies. The Emerson logo is a trademark and service mark of Emerson Electric Co. All other marks are the property of their respective owners