



## **ACCURATE**

### ***Yarn Monitoring System***

330 Elizabeth Ave. Somerset, N.J. 08873 U.S.A.  
Tel: 732-469-5551 800-722-6839 Fax: 732-469-7299  
[www.matrixcontrols.net](http://www.matrixcontrols.net)

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#### **OVERVIEW**

A Yarn Rate Transducer is installed on one positive feeder from each group of feeders driven by a belt. Up to five different belts can be monitored. Each belt being monitored can be set to stop the machine if it is out of tolerance by a user specified number of inches/revolutions. The reading for each belt can be calibrated to match the mills current yarn rate measurement system or left at the default calibration set by **MATRIX**, which matches the ravel method for the industry standard positive feeder.

**ACCURATE** will work with other types of feeders, but the factor will need to be adjusted to get the proper yarn rate. When an OUT OF TOLERANCE condition occurs, a super bright LED on the top of the ACCURATE lights and the knitting machine is stopped. To aid in setting up the knitting machine for a new fabric style, ACCURATE can be put in setup mode where only the current belt is monitored and the machine will not stop for an OUT OF TOLERANCE condition.

**ACCURATE** can be installed on all knitting machines in the plant. An optional feature, consisting of software and hardware, allows ACCURATE to communicate with a host computer. The host can collect data, generate reports to monitor yarn rate performance, and set ACCURATE parameters.

#### **TECHNICAL SPECIFICATIONS**

- 4 button sealed keypad - access code security for set-up menus
- 5 yarn rate transducer inputs
- Independent set point, tolerance, and calibration factor adjustments
- LCD backlit display - 2 line X 20 character
- Relay contacts to stop machine
- Power input jumper selectable
  - 105-125 VAC @ 0.125 Amps
  - 210-250 VAC @ 0.062 Amps
- Transient voltage protected power input
- Lockable environmentally sealed steel encasement



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#### **CUSTOMIZATION OPTIONS**

- Auxiliary AC/DC opto isolated signal input
  - 5-60 VAC
  - 5-60 VDC
- RS485 communications, 2 wire HALF DUPLEX for input/output
- Yarn rate meter jack
  - 5 VDC supply
  - 5 V logic rev pulse signal
- Software to generate performance reports and monitoring
- Vacuum Florescent Display for brighter viewing
- Percent Elastane Calculation· Percent Elongation of Elastane