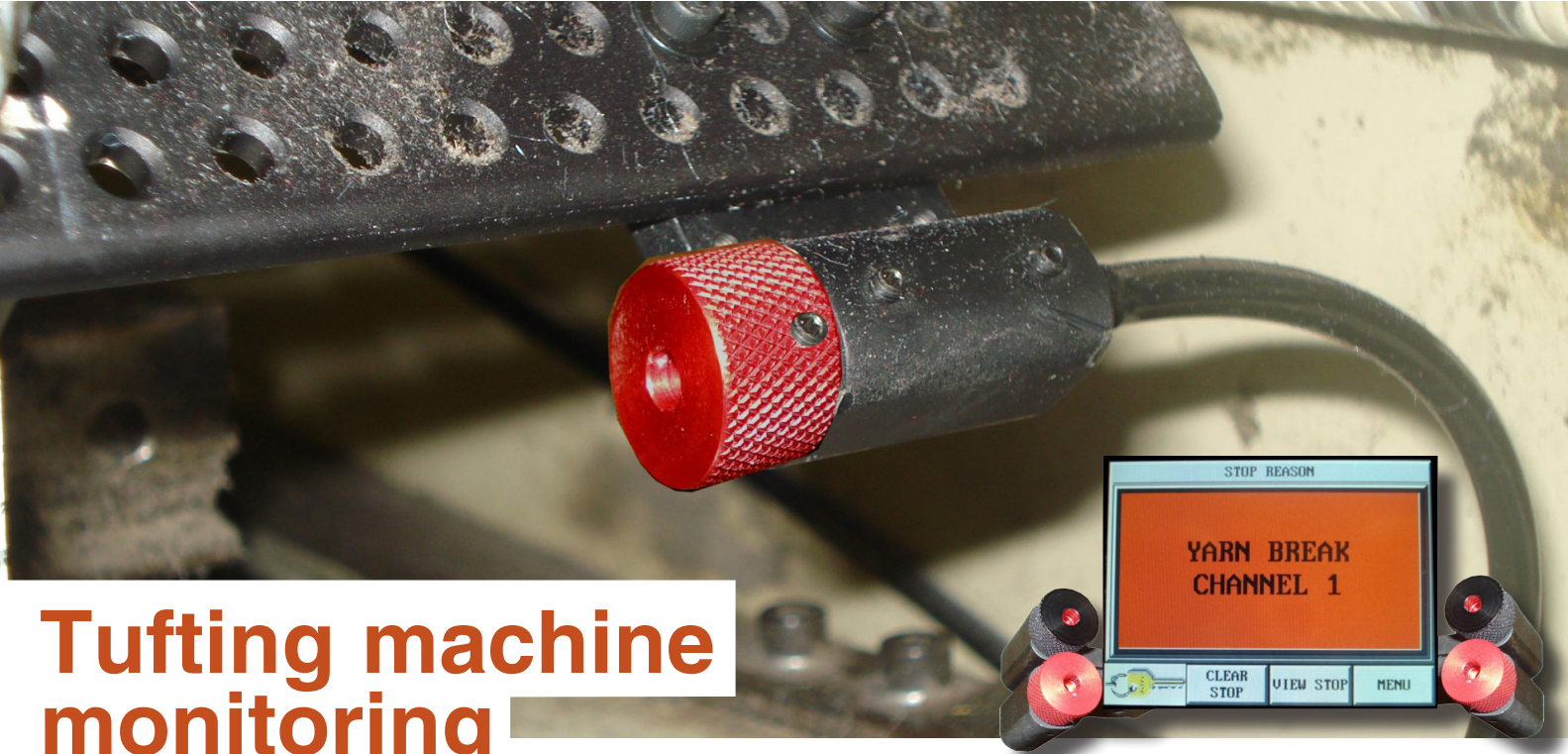


AEI INNOVATION

APPALACHIAN ELECTRONIC INSTRUMENTS

P.O. Box 518 - Ronceverte, WV 24970-0158 - USA



Tufting machine monitoring system (TMMS)

TMMS has been developed to allow tufters to move one step closer to full machine monitoring and 100% quality of tufted fabrics.

This design offers a simple, rugged, easy to use system for monitoring various Tufting machine operations along with up to 12 channels of broken yarn detection.

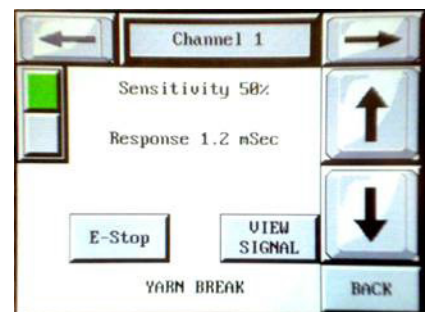
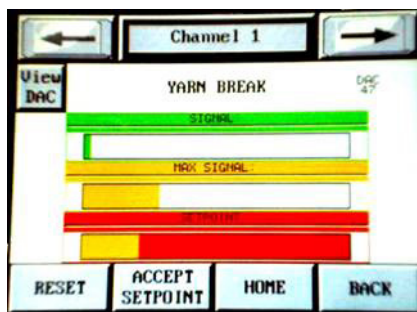
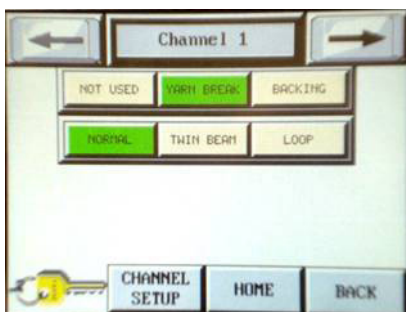
TMMS uses fiber optic sensors and cables designed for use in harsh environments.

CAPABILITIES

- Three selectable methods of broken yarn detection.
- Backing centering control.
- Backing out detection.
- Backing width monitoring.
- Simple, easy to use touchscreen control.

YARN BREAK DETECTION

- Single channel yarn break detection.
- Twin beam detection for dusty environments.
- Loop detection to ignore loose yarn plucking from the creel for channels close to the collector board.



Backing control

BACKING OUT DETECTION:

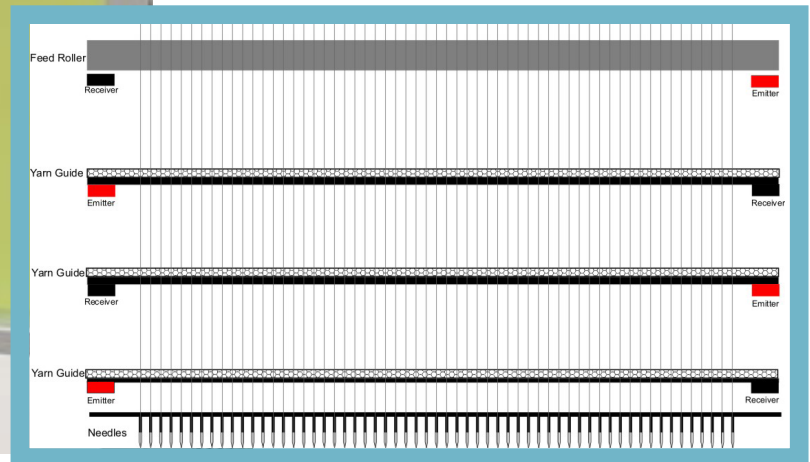
Stops machine before backing runs completely out.

BACKING CENTERING CONTROL:

This feature allows the TMMS to monitor the backing center. Relay contacts will either stop the machine or signal the backing alignment system.

BACKING WIDTH MONITORING:

This control will make sure the width of the backing fabric does not change. Especially useful with non-woven backing.



TMMS CONSISTS OF:

Power supply. Master controller. Display unit.

Up to 12 channels of broken yarn detection.

Fiber optic cable appropriate for machine width.

4mm tubing for fiber optic protection appropriate for machine width.

16 mm tubing for routing fiber optic cables appropriate for machine width.

All associated mounting brackets and hardware.

POWER REQUIREMENTS AND CONNECTIONS



85 to 264 VAC Single Phase,
50/60 Hz 100 Watts

RUN/RESET Signal 24-240 VAC/VDC
STOP signal relay COM-NO-NC

~ Specifications subject to change without notice ~

For more information about the TMMS or any other AEI solution contact us today.

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We will quickly put you in touch with the AEI representative for your region and industry.