

# FIBREVISION® FRAYTEC FV.

## ONLINE MONITORING SYSTEMS THE STANDARD FOR BROKEN FILAMENT MONITORING.

**Fraytec FV is the Industry Standard for Broken Filament Monitoring, providing proven performance on all Technical and Industrial Yarns with a range of substantial improvements over earlier generation Fraytec systems.**

Fraytec FV Plus provides further advanced features:

- Full characterisation of the size of Broken Filaments and Slubs – enabling quality grading to be based on fault magnitude instead of a simple count.
- Interlace measurement - enabling grading of yarns based on Interlace Level

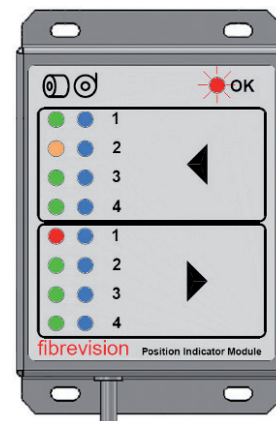
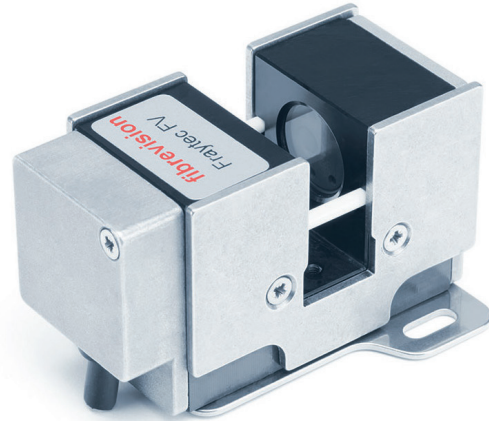
These advances have a substantial impact on downstream performance with Fraytec FV Plus providing grading based on all parameters that affect Technical Yarn Performance.

### FRAYTEC FV SENSORS

The Fraytec FV sensors operate with the established Fraytec technology identifying individual Broken Filaments down to 5 µm diameter at speeds up to 8,000 m/min. The Broken Filament faults are measured above and below the yarn with fault size options available for 3mm, 4.5mm and 6mm from the yarn. The compact Fraytec FV sensor has a fully sealed IP67 design that can be fitted to almost all types of machine. Installation and threadguides are provided to suit the machine and threadpath arrangement. The sensors automatically monitor their own health and compensate for contamination. In the event of faults an alarm is raised on the PC. For operation in particularly dirty or dusty environments an automatic sensor cleaning system is available.

### FRAYTEC FV SECTION MODULE

The Fraytec FV sensors are connected to a Fraytec Section Module which is normally located in an IP54 enclosure adjacent to the position. However, in some situations the Section Modules can be built into the sensor mounting arms. The Fraytec Section Modules carry out Data Acquisition, Signal Processing, Analysis and Fault Identification. In the case of the Fraytec FV Plus system, additional processing capability in the Section Module provides Digital Capture and Analysis of the Broken Filament faults as well as measurement on Interlace Level. Sections can be configured to operate with a maximum of 8 Fraytec sensors, but due to the high data acquisition and processing rates the maximum cable length between the Section Module and the Sensors is 4m.



Position Indicator Modules (PIMs) are connected to each Section Module and can be mounted in a convenient location adjacent to the winder. The PIM provides a direct visual indication of the quality and running status of the current package as well as the quality of the doffed package, allowing segregation at doffing without reference to the PC.

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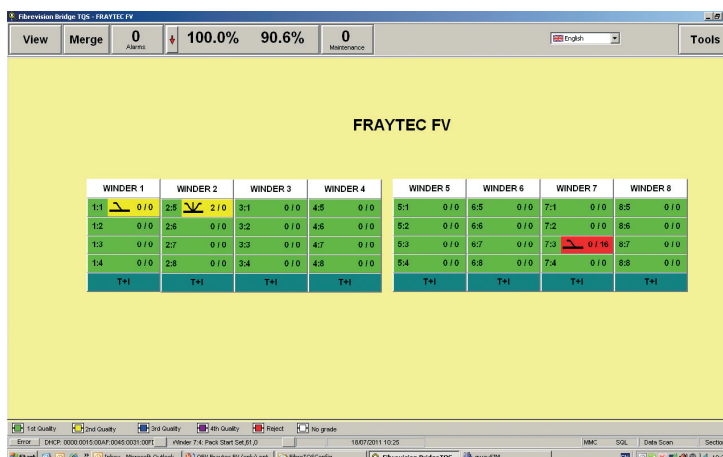
## ONLINE MONITORING SYSTEMS

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### FRAYTEC FV SOFTWARE

Fraytec PC Software provides a graphical display of the machine layout with a high degree of flexibility and an unlimited number of threadlines per machine or system. The top level screen provides an overview of both threadline running status and quality grade by the colour of the package icons. Clicking on a winder icon displays details of the current readings and clicking on individual threadlines provides:

- Current readings
- Summary data for the package to date
- Details of off quality events
- Real Time View graph
- Analysis tools to aid troubleshooting
- Quality reports from previous packages
- Access to historical trend data



### FRAYTEC PLANT INTEGRATION

Saurer Fibrevision offer a range of Plant Integration options for Fraytec Monitoring system that offer substantial operational benefits, these include.

#### MULTI MACHINE CONTROLLER

Provides the facility to control multiple machines from a single computer as well as for multiple computers to view the status of single or multiple machines. A top level screen indicates the status of the machines installed, with the ability to click through on to the current displays for each machine, with full access current data. Merge settings can also be controlled from the MMC.

#### DATA EXPORT

Fraytec data is stored in a SQL Database which can be queried by plant systems to extract data as required. Alternatively Fraytec can export files to the local disc that can be imported in to a data base.

#### DOFF NUMBERS

Dooff numbers can be synchronised with plant number is variety of ways.

These options will be quoted for specific installations and are subject to an annual maintenance charge for upgrades and support.

### FRAYTEC UPGRADES

Saurer Fibrevision are pleased to be able to offer attractive part exchange packages to update earlier generation Fraytec systems to Fraytec FV.