

MicroSCAN FX110

At-Line QC

The **MicroSCAN** provides a revolution in QC measurement by providing accurate **At Line** measurement of key parameters providing data on both **Mean Level** and **Short Term Variation**.

Accurate QC measurement in all filament yarn processes is critical, yet today's laboratory techniques have major shortcomings in:

- Measurement accuracy
- Inability to measure short term variation
- Statistical significance
- Lag time between manufacturing and testing.

Historically **At-Line** measurements have been considered to be less accurate than Laboratory tests for key QC measurements, but the **MicroSCAN** has been shown in production tests by some of the industry's leading companies to be **MORE ACCURATE** than laboratory tests for measurement of **Spin Finish** and **Interlace**.

The **MicroSCAN** offers substantial Cost and Quality Benefits in comparison to Laboratory testing.



Cost Benefits

Very Low Testing Costs

With a few seconds for each measurement a single technician can realistically test well over 100 threadlines per hour using the **MicroSCAN**.

Lower Capital Costs

A single **MicroSCAN** has substantially greater measurement capacity than any Laboratory equipment and yet is a fraction of the cost

Payback on Investment

Typically less than 3 months

Reduction of Claims

Due to Improved Accuracy and availability of Short Term Variation Data

Quality Benefits

Eliminate Short Term Faults

These faults cause significant problems in downstream processes yet cannot be identified in the laboratory tests

Accurate Statistical Data

Resulting from extended test lengths, accuracy of data and more frequent measurements

Faster Feed Back

Immediate identification of faulty threadlines

Improved Quality

As a result of: elimination of short term faults, reduced off quality and Better Downstream Performance



Monitoring Excellence



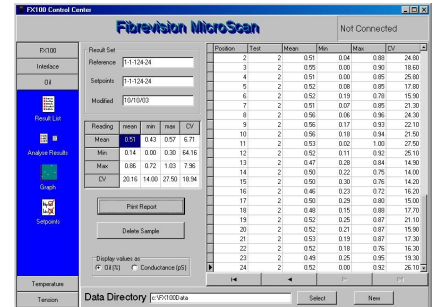
Features

The **MicroSCAN** is an ultra portable, battery powered data acquisition unit designed specifically for intensive AT-LINE QC applications. The **MicroSCAN** operates with a range of probes to provide 4 different applications:

- **Interlace**
- **Tension**
- **Spin Finish**
- **Yarn Temperature**

The user interface of the **MicroSCAN** is a touch screen providing access to generate set point and data files and control the Data Acquisition sequence.

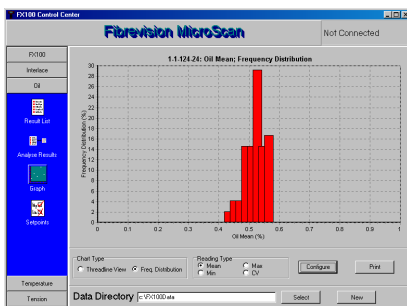
The Applications for each probe incorporate state of the art data analysis routines, which together with ISO calibration provide extremely accurate measurements with a range of statistical data. Summary and individual data can be viewed is presented on the **MicroSCAN** screen.



Up to 15 setpoint files and 20 data files can be stored in the **MicroSCAN**. During acquisition samples are automatically numbered, and up to 500 readings can be stored in each data file.

Each **MicroSCAN** has the capability to operate with two different types of probes.

PC Centre Software



A Windows Based PC application is provided with each **MicroSCAN** to provide:

- **Data Presentation and Printing Facilities**
- **Long Term Data Storage**
- **Data Export to Spreadsheets/Data bases**
- **Reprogramming Facility**

The **MicroSCAN** is connected to the PC by a standard RS232 serial link to a PC and the data is automatically transferred.

Applications			
MEASUREMENT	MicroSCAN PROBES		DATA
	TYPE	RANGE	
Interlace	FS220	10 to 2000 Denier	Nodes/m - Mean and CV, Node distance - Max and CV
	FS230	500 to 12,000 Denier	
Spin Finish	FO110	See Probe Data	Mean, Minimum, Maximum, and CV
Tension	FT120	4 ranges, 60g, 100g 500g and 1000g	Mean, Minimum, Maximum and CV
Yarn Temperature	FH100	10 to 3000 Denier	Mean (if multiple readings taken per threadline)
Specification			
Power Supply	4 NiMH rechargeable cells providing up to 6 hours continuous use.		
Internal Memory	Non Volatile memory (data is not lost when batteries are changed) - stores up to 15 setpoint files and 20 data files for each application, each data file can hold up to 500 records.		
User Interface	Touch Screen		
Applications	Two applications (Probe Types) can be used on a single MicroSCAN (See Above)		
Data Output	Via PC application, with custom database for data presentation and printing. Facility for data export in format suitable for spreadsheets and data bases		
Calibration	MicroSCAN and Probes are supplied calibrated to ISO standards, a recalibration service is available. Optical probes include condition monitoring.		
Scope of Supply	FX110 MicroSCAN , 8 NiMH batteries, Battery Charger, PC software, Link Cable to PC, Operating Manual,		