



Would you like to be able to control the OPU/FOY content on the running yarn, but you are not prepared to make the investment needed for a complete online system?

With **OPUMETER**, filament producers have the possibility to get quick feedback about the OPU/FOY on each thread online.

**OPUMETER** is a handheld and easy to use measuring tool, which gives the operator the needed information within seconds. The sophisticated design allows for comfortable and ergonomic measurements.

The read data are either communicated via bluetooth connection to a laptop or an industrial tablet. Thorough analysis possibilities of the measurement data are offered by the **OPUMETER** software.

In comparison with conventional laboratory testing of the OPU / FOY, **OPUMETER** reduces the time gap between the actual production and the quality control process, meaning quicker reactions to production malfunctions as well as less downgraded goods. Moreover, the online measurement enables immediate detection of short time deviations, thereby indicating possible problems with air bubbles, faulty pumps or applicators.

## Scope:

Online determination of the current Oil Pick Up (OPU%) or Finish On Yarn (FOY%) with a handheld testing instrument for partly and fully oriented yarn.

## Method:

By means of conductivity based technology, the relative spin finish content of the running yarn is determined by positioning the handheld instrument in such a way that the filament is detected by the sensor. Thereafter, a button is pressed to initiate the measurement according to previously set parameters such as measurement duration, tolerance limits etc.

## Results:

The measurement results are communicated and visualised either via bluetooth connection to a laptop or a tablet. Thereafter the measurement results can be analyzed using the OPUMETER Evaluation Software.

## Spin finish range:

0,05 - 5,00 %  
(depending on the conductivity of the spin finish)

## Titer range:

Up to 6000 dtex

## Display of results:

Via industrial tablet or laptop  
8,0" TFT touch screen  
Resolution: 1280 x 800

Status display via LED to indicate communication, operation mode, etc,...

## Possible parameter entries:

- Line
- Position
- Product
- Remarks
- OPU value calibration
- Measurement duration from 1 second up to 60 minutes

## Sampling rates:

15.000 measurements/sec.  
(15 kHz)

## Operation System:

Windows® based

## Data storage:

Data storage of laptop and tablet depends on the respective hard disk capacity

## Ambient temperature:

20 to 50°C

## Relative humidity:

max. 90%, not condensing

## Power supply sensor handle:

Ni-Ion AA-batteries 1,2 V;  
nominal capacity 2.850 mAh

## External charging device

100 - 230 VAC; 50/60 Hz

Charging time: approx. 2 h

Measuring time: approx. 2,5 h

## Dimensions handheld measurement unit:

Height: 260 mm

Width: 90 mm

Depth: 30 mm

Weight: approx. 350 g

## Dimensions industrial tablet:

Height: 147 mm

Width: 235 mm

Depth: 22 mm

Weight: approx. 900 g

## Option:

USB C connector for external power supply

Technical data and pictures are subject to change!

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