



Checking fiber bales for their moisture content is crucial for the control of both the fiber production process and yarn spinning as well as for commercial reasons; but how do you test every single bale most effectively?

Our **BIS 200** is designed to be integrated into any conveyor system. It checks every single bale for its overall moisture content as well as for the moisture distribution within the bale, including the identification of wet or dry spots. **BIS 200** gives immediate feedback of the last process steps within fiber production such as drying, opening and baling and hence provides important information for further processes.

**BIS 200** works on-line, fully automatically and computer controlled. The results may be transferred to a central computer and/or to an automatic labelling system. A bale's commercial mass can be calculated directly in combination with a bale balance. Bales out of moisture limits can be separated immediately.

## Scope:

The BIS 200 consists of two components: a capacitive measuring gate with an isolated measuring conveyor, which is to be integrated into the existing bale conveyor and a cabinet with the control and evaluation unit. The capacitive measuring gate has reference plates on top and

bottom and measuring electrodes on both sides. Every bale passing through this gate is scanned „slice by slice“ for its moisture content; the result readings show the bale's moisture profile with possible wet and dry spots, and its overall moisture content.

The range of application covers natural and man-made fibers (cotton, wool, viscose-rayon, acetate, acrylic fibers) with a minimum moisture content of 3%. Ideally, BIS 200 is used by fiber producers, by fiber consumers and by commercial organizations.

## Measuring range:

5 - 20 % absolute moisture content

## Accuracy:

Better than  $\pm 1$  % absolute moisture content per mass

## Repeatability:

$\pm 0.5\%$  moisture content

## Results:

Absolute moisture content per mass in %.

Graphic moisture distribution profile with limit levels for verification of wet and dry spots.

## Weight input signal:

Analogous, 0 - 20 (4 - 20) mA from optional bale balance, or via RS 232

## Power supply:

220 V / 380 V on request

## Input for bale specifications:

Fiber type, production line, bale no., weight and other details; use of a bar-code reader optional

## Interface for external communication:

RS 232

## Calibration:

Through calibration factors for different fiber types, packing materials, etc., by comparison with laboratory method (conditioning)

## Alarm levels:

Can be specified and set for high and low moisture content as well as for wet and dry spots

## Optional:

Bale balance 0 - 300 kg  
Individual conveyor system  
Labelling station for bales

Technical data and pictures are subject to change!

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