



## FMI In-line moisture meter - transversal transport

The FMI In-line system of Brookhuis Micro-Electronics for longitudinal transport, makes it possible to measure wood moisture content without any contact with the wood. The FMI type X can measure the moisture content at a speed of 200 boards a minute and measures 400 times a second.

The FMI system type X consist of a control unit and one or more sensors. The control unit is microprocessor-controlled. Data (the woodspecies, the dimensions, the specific weight, the admissible maximum and minimum moisture content of the wood and the action which should follow when the moisture content is outside the limits) can be programmed in so-called product programs. The FMI system can be integrated in production lines for sorting, marking or ejecting the wood.



### Microprocessor-controlled sensor with:



- Narrow field sensor, 400 mm or 600 mm
- Maximum 3 sensors connected to one console.
- Integrated optical sensor for board detection.
- Maximum 200 boards per minute.
- 400 MC measurements per second.
- Fully automatic calibrations, no potentiometers
- Board thickness 10~150 mm.
- Operating temperature -10 ~ 40°C (14~104°F) (non-condensing)
- Dimensions X400 (400 x 200 x 150 mm)  
X600 (600 x 200 x 150 mm)
- Weight X400 (5.4 kg)  
X600 (8.1 kg)





## Microprocessor-controlled system

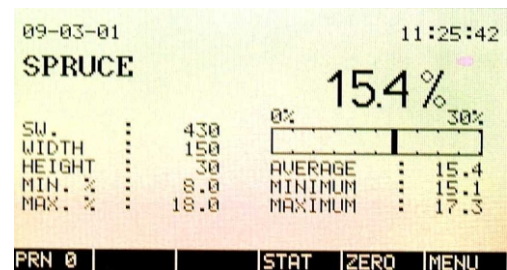


The control unit is provided with an extensive software program. It is menu-driven and with the help of function keys simple operation is guaranteed. The data can either be printed with a printer or processed with a PC. Extensive reports and statistics can be produced in combination with programmes like MS Excel and MS Access.

- Graphical display 65 x 120 mm (2.5 x 4.7") with back light.
- A measurement screen for average, maximum, minimum and continuous Moisture Content (MC) reading of each board.
- A statistical screen with 10 ranges for average MC, standard deviation and graphical information of all measured boards.
- Accuracy  $\pm 1\%$  MC typical.
- Backup memory.
- Digital inputs for automatic zeroing, start/stop measuring and pause measuring.
- Relay outputs for watchdog, maximum and minimum MC level, real-time marking (Type L) and alarm (Optional sorting on 4 levels).
- Communication port RS 232 and RS 485 for PC or printer.
- Analogue output 0(4)~20 mA or 0~10 Volt
- Supply voltage 90~132 / 175~264 VAC 47~440 Hz.
- Operating temperature 10~40°C (50~104°F) (non-condensing)
- Dimensions 380 x 380 x 240 mm (15 x 15 x 9.5 inches)
- Weight 12.7 kg. (28 lbs.)

## Menu-driven control unit with:

- 9 different languages (English, French, Spanish, Dutch, German, Finnish, Swedish, Danish and Portuguese).
- Adjustable sensitivity for knot, wet spot and finger joint suppression.
- Report generator for PC or printer.
- Alarm setting (rejected compared to measured boards).
- Software for 250 or 1000 product programs with settings for:
  - Wood species type (16 characters)
  - Batch information (2 lines / 16 characters)
  - Density
  - Dimensions (mm or inches)
  - Peak, average or real-time (type L) marker
  - Maximum and minimum MC level
  - Calibration procedure (automatic / manual)
  - Calibration optimisation



< 08		1	89
08-09		3	264
09-10		7	645
10-11		14	1262
11-12		22	1905
12-14		38	3379
14-16		12	1063
16-18		2	185
18-20		0	28
> 20		0	13
AUG	12.1	STD	1.9
		E	8833

PRN 0 | RESET | PRINT | MEAS | ZERO | MENU

