ON-LINE MOISTURE METER

UM400

TO MEASURE THE AMOUNT OF MOISTURE CONTAINED IN THE MATERIAL

The UM400 microprocessing instrument has been designed to determine on-line the percentage of moisture present in the wood. The material is dried by the heat of an infrared lamp. The method used is unaffected by any side effects which may be caused by colour, density, chemical properties or absorption, all of which may produce unreliable results with other methods. A pneumatic arm extracts the material from the production line and places it in a thermostatic chamber containing a precision weighing scale, where the moisture test will be carried out. When the final weight is reached the moisture content is calculated and displayed. The procedure is performed automatically and does not require an operator.

MAIN FEATURES

• User friendly software • Simple and clear graphics • Incorporated database to store the measurements and effect statistical analysis • Easy to install • May be interfaced with other computers and network linked to PLC.

ADVANTAGES

• Real time measurement of the moisture content • No risk of human error with the measurements • Elevated measuring precision • Simple to use • No maintenance • Able to manage up to 8 UM400s at the same time with just 1 PC • May be installed anywhere in the plant.

BEST IN CLASS FOR:

WOOD BASED PANELS:
PB/SPB
OSB/LSB/FOSB
MDF/HDF

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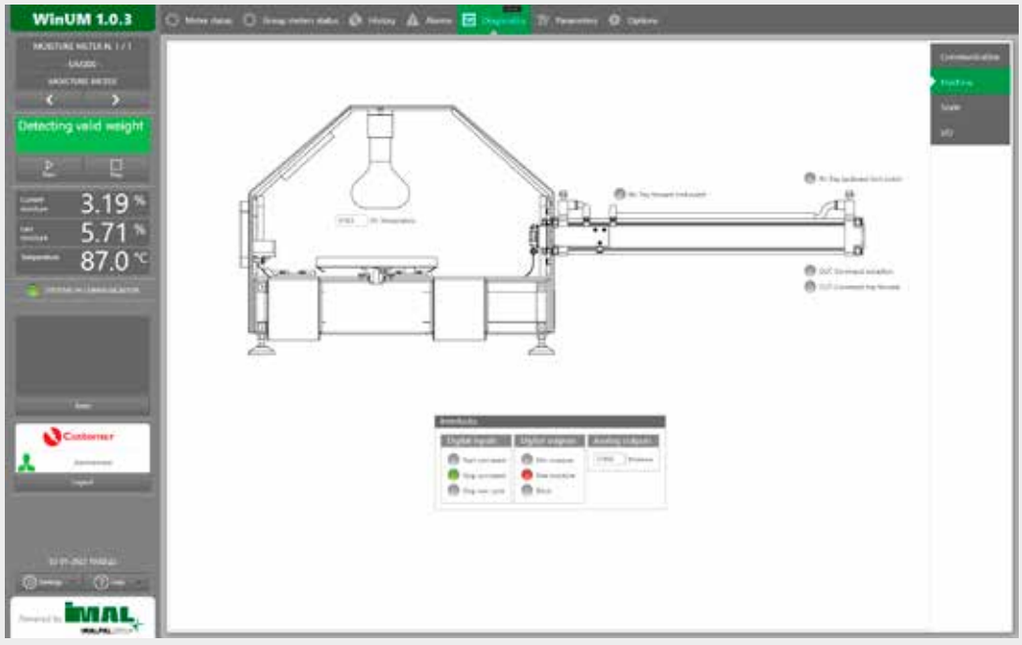

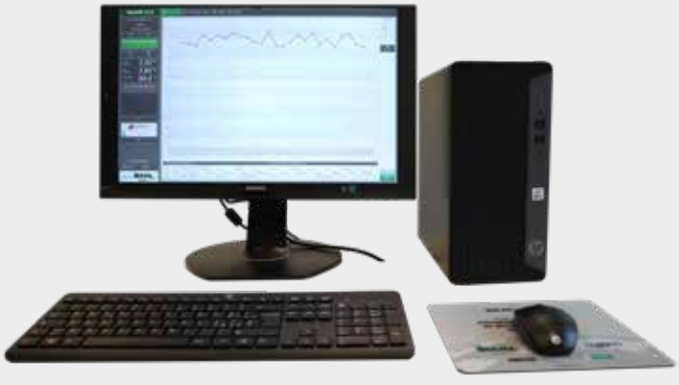

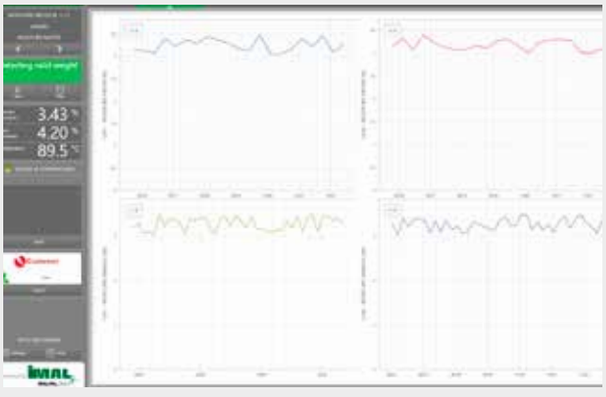

WORKING PRINCIPLE

2 function modes: • **Automatic P control:** the measuring cycle ends when weight variation over a time unit (programmable in seconds) falls below or is equal to the P which has been set (programmable in 1/100 g)

• **Manual timer control:** the operator sets the time for the measuring cycle in minutes, and at the end of the cycle, the final weight and moisture content are displayed and stored and/or printed.

TECHNICAL DATA	
FULL SCALE	0 ÷ 200% ATRO
ACCURACY	0.1%
RESOLUTION	0.01%
CHAMBER OPERATING TEMPERATURE RANGE	+30 ÷ 250 °C (programmable)