

ON-LINE INFRARED MOISTURE METER

UM700

TO MEASURE THE AMOUNT OF MOISTURE CONTAINED IN A VARIETY OF PRODUCTS

**BEST IN CLASS FOR:**

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

The UM700 is an infrared photometric analyser which uses fixed near infrared wavelengths to measure the amount of moisture contained in a variety of products. The system is based on the capacity of the materials to absorb certain wavelengths of infrared radiation. Material temperature readout may be added as an option.

The UM700 is a "stand-alone" sensor for the on-line monitoring of moisture content. Optional wall-mountable or hand-held operator interfaces are available for setup, calibration and maintenance. In applications where material needs to be collected from a downward flow, for example from inside a chute, a material collecting system may be supplied. It is possible to add a second cooling kit if temperatures are very high in the installation area or, on the contrary, a heated cover for areas where temperatures are low.

MAIN FEATURES

- Unaffected by light or material height
- No contact analysis
- No auxiliary signal processors needed for signal processing
- Dual analog output
- Versatile interface through RS 485 communication
- On-line moisture monitoring possible with analogue signal to remote PC
- Pre-set factory calibration
- Easy to install.

ADVANTAGES

- The on-line monitoring of the moisture content may be used to perceive variations in the production process
- The data saved may be used to provide an historical moisture trend.



TECHNICAL DATA

MOISTURE RANGE	Min. 0.1% - Max. 95%
TEMPERATURE RANGE (OPTIONAL)	Min. 5°C - Max. 100°C
ACCURACY	± 0.5% of calibrated range
REPEATABILITY	± 0.5% of calibrated range
STABILITY	Requires 1 calibration a year
MAX OPERATING AMBIENT TEMPERATURE WITH COOLER KIT	55 °C
SENSOR DISTANCE FROM SAMPLE SURFACE	From 150 to 350 mm
AREA SAMPLED	75 cm ² standard
POWER	90/260 V - 50/60 Hz
OUTPUT	4 ÷ 20 mA - optional 0 - 10 V
DIMENSIONS	406 x 152 x 178 mm (L x W x D)
WEIGHT	10.8 kg
PROTECTION	IP65 CEI EN 60529