## **DMR 2000**

Online Thickness Gauge for Quality Control with Measuring Rollers



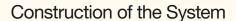
### Quality Control with the GreCon Thickness Gauge

Exploit all reserves of your production, homogenise your process, increase the availability of your equipment.

Fluctuations in panel thickness and deviations from nominal values reduce quality. Your customer will identify these as defects in your product.

The GreCon Thickness Gauge DMR 2000 provides accurate information to ensure a high quality standard by a quick adjustment of the production process.

All measured data can be transferred to an automatic process control or press control system. Thus, time periods required for product changes or production start-ups can be reduced and rejected material minimised with the DMR 2000.



Up to 10 measuring tracks can be mounted on a frame, which is made out of patented aluminium profiles. The cable and compressed air ducts are integrated in the profile and thus protected against the surroundings.

The measuring heads are installed in pairs, opposite each other, above and below the panel to ensure accurate measurements, even during bending or vertical movement of the panel.

High-precision rollers contact the material and convert thickness variations into vertical motion within the transducer. The measurement is achieved by means of an optical element inside the transducer heads.

To protect the measuring heads against mechanical damage, through blisters, for example, they are equipped with relatively big rollers. The top heads have special inclined inlet rails to avoid damage.



### Software

The visualisation software of all GreCon measuring systems is based on Windows. The software of the DMR 2000 consists of the following program modules:

### Recipe Management

This is a product data base in which different panel types and production parameters, which are relevant for the measuring system, can be stored.

### Visualisation

The core of the software package is the visualisation software. It records, stores and graphically represents all measured data. The simple menu structure, which is identical for all GreCon measuring systems, makes an intuitive operation possible. Clear information and graphics enable the operator to quickly and effectively adjust the running production process.

### History Data Base

This data base stores the measured values and provides a function to export them to other file formats for further processing and evaluation.

### **Network Connections**

For the data transmission to higher-ranking process control systems, different interfaces, such as NET DDE, Allen Bradley Ethernet or Ethernet with TCP/IP or H1 BUS protocol, are available.

### Online After-Sales Service

GreCon measuring systems are equipped with a modem, by means of which a direct connection to the GreCon after-sales service can be made. Support, changes in parameters, software updates and trouble shooting are all possible online.

### **Technical Specifications**

Mains voltage:	230 V / 115 V
Frequency:	50 Hz / 60 Hz
Power consumption:	750 VA
■ Compressed air supply	:6 bar / 90 psi
■ Compressed air consumption: approx. 3.5 I / 0.12 cf	
	per measurement
	(with 5 measuring heads)
Max. number of heads	
per electronics evaluation	on: 20 (10*1)
■ Measuring accuracy:	± 1/100 mm / ± 0.0004 in,
	± 2/100 mm*1 / 0.0008 in*1)

<sup>\*1</sup> for 2-side measurement (pairs of measuring heads

### References

Particleboard

Fibreboard

OSB board

Plywood

Gypsum board / mineral fibre / wood cement

HDF board / hardboard

Solid wood / veneer

Plexiglass / rubber / linoleum

Wet fibreboard

### Installation Places

After the press Star cooler Sanding line



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# GreCon



Fagus Factory, constructed by Walter Gropius in 1911

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