

Temperature and Gas Pressure Measurement with Wireless Sensor Technology during Hot Pressing



What Happens in Your Hot Press?

Product Description

Optimise your pressing process by measuring the development of gas pressure and mat temperature in any position within your press. The CONTILOG is an online sensor, by means of which the parameters, such as gas pressure and temperature of the mat are recorded during pressing.

These parameters give information on the hardening of the resin in the mat and enable you to optimise the press program for your individual recipes. Reach a core layer temperature of 100 °C as soon as possible! Delaminations can be minimised by improving the degasification from the mat centre.

Influences by upstream processes (e.g. moistening, preheaters) or product parameters (e.g. glue, density, moisture) on the pressing process can be immediately detected. Monitor the conditioning of the panels.



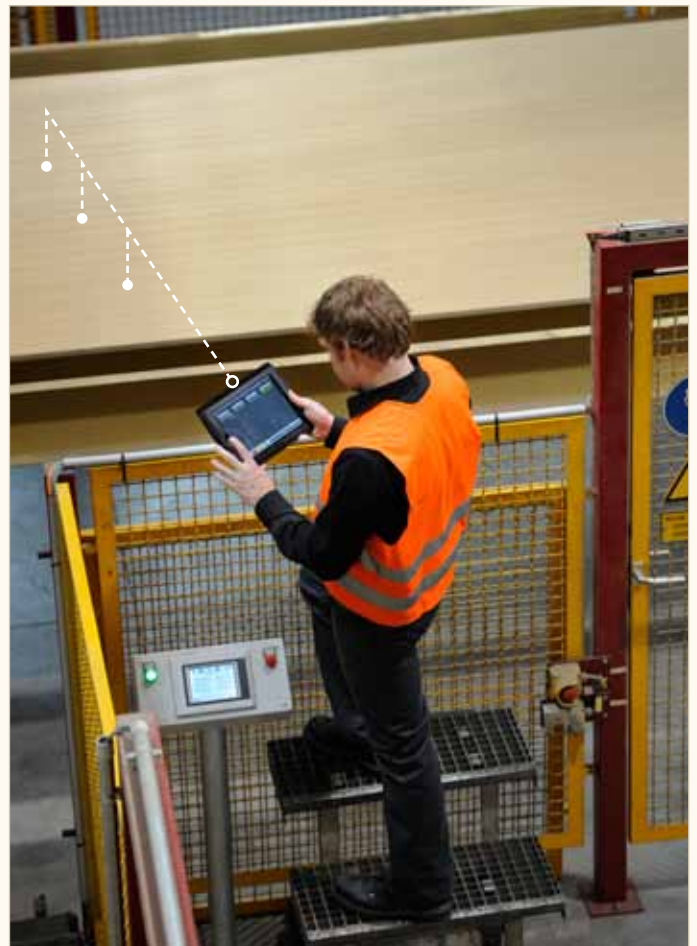
Measurement in the press

Measuring Principle

A wireless sensor is placed in a wood based mat as a lost component and runs through the hot press where it measures gas pressure and temperature. When having left the press, the measured data is wirelessly read out by means of a reader. Afterwards, the data can be transferred to a PC via an SD card or serial interface.

Measuring Procedure

- Placement of the logger in the core layer of the wood based mat
- Marking of the logger's position on the mat edge
- Continuous measurement of gas pressure and temperature while running through the hot press
- Synchronisation of the measurement with press inlet and outlet
- Wireless read-out of the data logger



Any number of measuring positions

Why GreCon



- Gas pressure and temperature can be measured in any position within the press
- Exact measurement in the core layer
- Any number of measurements at the same time
- Easy and safe handling
- Wireless data transfer
- Information available quickly

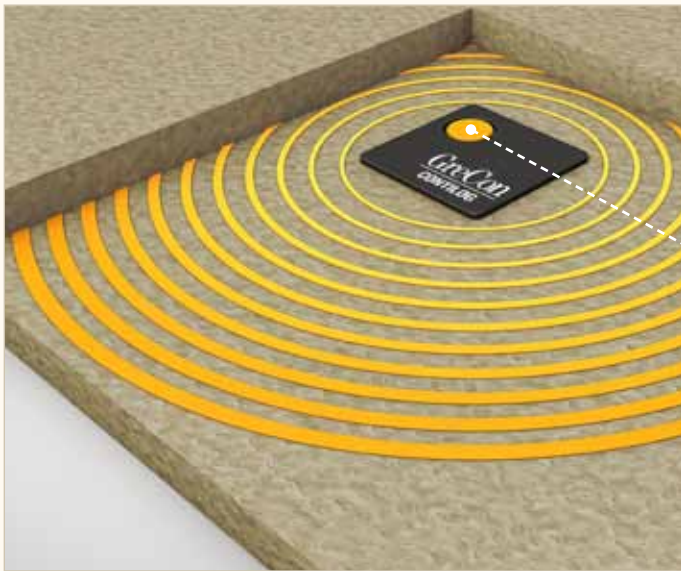
Your Benefit



- Information on the hardening of the resin in the mat
- Shorter start-up times
- Preparation of new recipes in record time
- Optimisation of existing press programs
- Minimisation of delaminations
- Faster degasification from the mat centre
- Detection of influences of upstream processes
- Measurement of the effects of product changes
- Monitoring of the conditioning phase of wood based panels

Applications

- Particleboard, OSB, MDF manufacturers
- Insulating material manufacturers
- Original equipment manufacturers (OEM)
- Glue producers
- Research institutes



Technical Specifications

- Measuring resolution.....1 second
- Gas pressure range.....0 to 600 kPa
- Temperature range.....0 to 125 °C
- Sensor thickness.....5.5 mm

Analysis on tablet PC



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GreCon

P.O. BOX 1243
D-31042 ALFELD/HANNOVER

TEL.: +49 (0) 5181-790
FAX: +49 (0) 5181-79229
E-MAIL: sales@grecon.de
WEB: www.grecon.de

