

Technical Specifications

Data Logger

- Dimensions (L x W x H)..... 79 x 67 x 5.5 mm
- Weight..... approx. 22 g
- Power supply.....3.0 V / 560 mAh
- Measuring resolution.....0.5 s

Gas Pressure Sensor

- Absolute measuring range 0 to 600 kPa
(above atmospheric pressure)
- Max. measuring inaccuracy 2.5 %
(at 0 to 85 °C)

Digital Temperature Sensor

- Measuring range..... up to +125 °C
- Measuring accuracy +/- 2 °C
- Panel thicknessmin. 18 mm
- Radio frequency 868 MHz

Reader

- Dimensions, incl. protective rubber (L x W x H)...
approx. 296 x 214 x 50 mm
- Operation system Windows 7 embedded
- Weight..... approx. 1,440 g
- Colour display.....8"
- Working memory 1 GB
- Hard disk..... 32 GB

References

- Particleboard, OSB, MDF manufacturers
- Insulating material manufacturers (up to 125 °C)
- Original equipment manufacturers (OEM)
- Glue producers
- Research institutes

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GreCon

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

GreCon
Measuring
Technology

GreCon
Fire
Protection



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Subject to technical and country-specific modifications.
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TEMSOL
CONTILOG

Your Benefit



- Information on the curing of the resin in the panel (reaching of the 100 °C threshold in any position across the panel width)
- Information on the degasifying behaviour of wood based panels
- Short start-up times of wood based panel productions
- Optimisation of existing press programs
- Recipe adaptations in record time
- Minimisation of delaminations
- Detection of influences of upstream processes
- Easy verification of the feasibility of new products

Why GreCon



- Temperature and gas pressure measurement in any position within the press
- Exact measurement in the core layer
- Safe and easy handling
- Wireless data transfer
- Intuitive touch display
- Up to six measurements at the same time

Gas Pressure and Temperature Measurement for an Optimum Pressing Process

Optimise your pressing process by measuring the development of gas pressure and mat temperature in any position within your press. The CONTILOG is a sensor that records the gas pressure and temperature during hot pressing of the panel board.

The temperature measurement provides information on the curing of the resin in the mat and enables 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.

Monitor the Pressing Process and Improve the Mat Quality

Immediately detect the effects of optimisation measures on the quality of your products. The effects of changes in surface or core layer moisture, glue structure, particle size, raw density and other parameters can be immediately checked. Even the influence by surface spraying, preheating systems, transport speeds and other upstream processes quickly become apparent. Reduce the start-up time of your press by checking the heat transfer to the core layer of your products in any position.

Control the data loggers intuitively using "touch" with a tablet PC. The tablet PC can be used for both CONTILOG and EASYLOG data loggers.

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. After leaving the press, the measured data is wirelessly read out with the tablet PC. The data can be transferred to a PC for evaluation using a USB stick.

Measuring Procedure

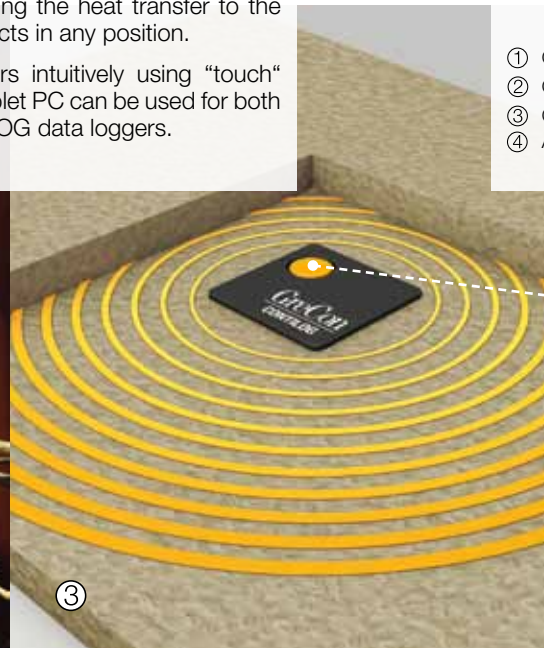
- Placement of the logger in the core layer of the wood based mat
- Marking of the logger's position on the mat edge
- Continuous measurement of gas pressure and temperature while running through the hot press
- Synchronise measurement with press inlet and outlet
- Wireless read-out of the data logger



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④

- ① CONTILOG set of sensors and tablet PC
- ② CONTILOG in application
- ③ Chip within panel
- ④ Analysis on tablet PC