

DRYZONE In-kiln Moisture Measurement System

Introduction

Dryzone is a high-tech moisture content (MC) measuring system that can be used effectively to improve control of the final moisture content during timber drying. Dryzone is also a valuable tool to assist kiln supervisors in achieving drying quality by preventing wet claims and minimize over drying.

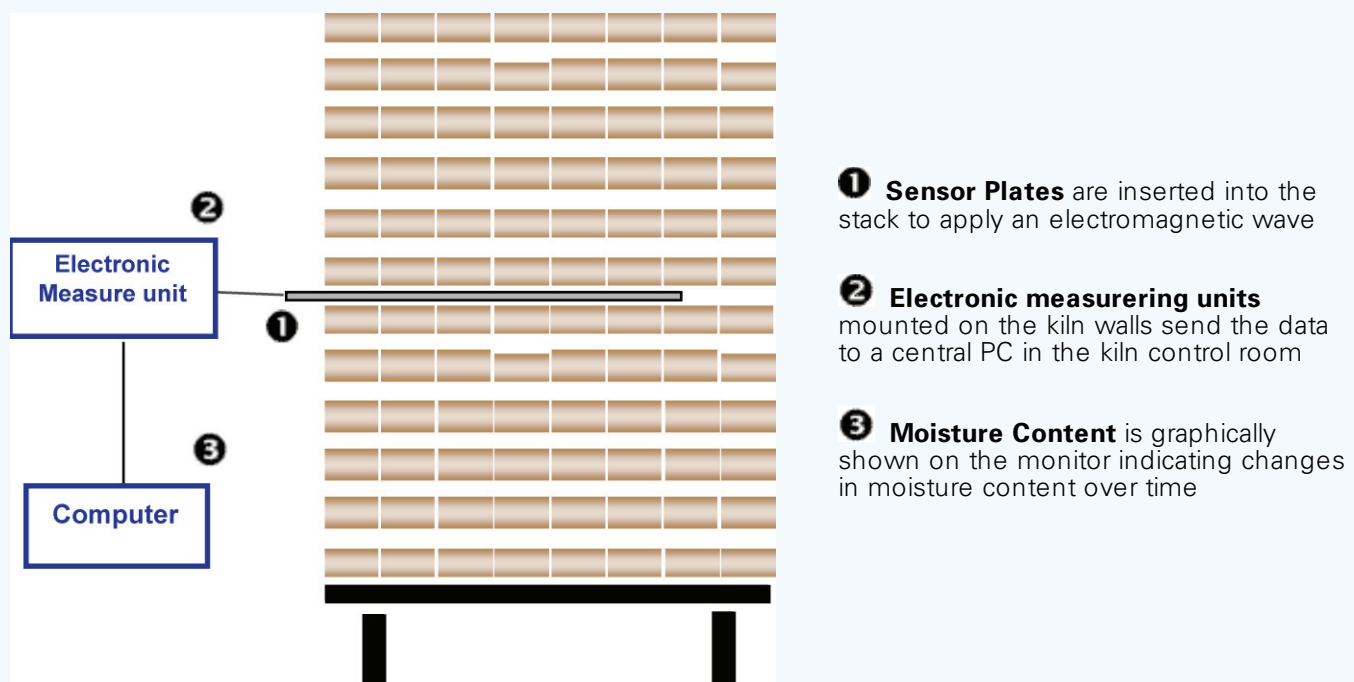
The need to stop the kiln, check the moisture content with a handheld meter and restarting the kiln is effectively eliminated, thus improving kiln throughput. The system includes a mechanism to enable automatic shutdown of the kiln at the correct moisture content. This is implemented by providing an external relay that can shut the kiln down or by communicating with the kiln control system using a serial data link. Alternatively an audio alarm is enabled when the kiln charge reaches the desired moisture content.

The charge moisture content is shown on a computer screen from green to dry, this assists kiln supervisors to develop schedules that leads to improved drying quality.

Dryzone has the capability to measure moisture content above 90% MC and can accurately determine the transition through fibre saturation point. With Dryzone, schedule development is easier and more precise since schedules are based on actual moisture content.

This system is an industry-proven technology and has been in operation in kilns in various parts of the world since 1996.

Configuration





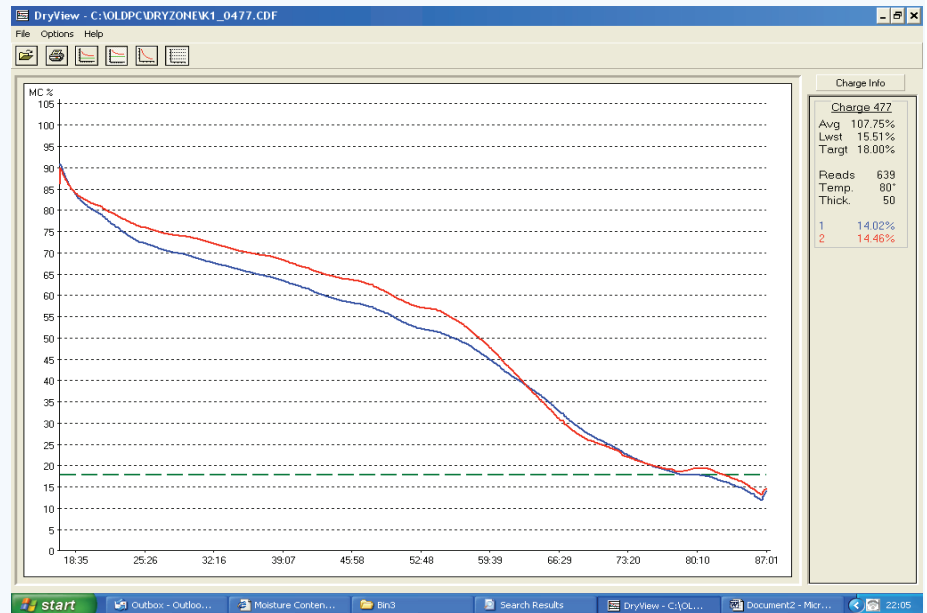
Sensor plates inserted into stack



Sensor plates inside the kiln

What are the main benefits of Dryzone?

- Eliminating guesswork in determining when a charge has reached the desired final moisture content
- Measures the average moisture content per stack, not individual boards
- Increased kiln through-put and reduced over-drying
- Simple and robust system to operate, less than 5 minutes required to insert plates in stack.
- Superior accuracy and reliability
- No more manual hot checks required
- Enables automatic end-point of drying
- Reduces the costs of degrade due to over-drying
- Eliminates the need to redry kiln charges



Moisture Content graphical display

Contact www.dryzone.co.za

DRYZONE

In-kiln Moisture Measurement System

Copyright © 2006 www.dryzone.co.za All rights reserved.

