Windsor™

KILN CONTROL SYSTEMS

DRYSPEC 2000

Dryspec 2000 has been designed by Windsor, ensis and Automation & Electronics and is a Windsor based SCADA system which is easy to operate, yet powerful in functionality.

Dryspec 2000 is an advanced computer and PLC based management system providing centralised control and a database of any number of timber drying kilns and conditioning chambers plus integration of in-kiln moisture content systems and heatplant. A fully functioning demo version is available free of charge for evaluation and training purposes. **Dryspec 2000** is structured as the basic Process Control and Reporting system with add-on Advanced Process and Management options.

Standard Features

- Start, pause, restart and stop facility
- Sophisticated multi-step schedule designer including:
  - Set Point ramps
  - Graphical display
  - Endpoint on time, T.D.A.L., drying progress or MC (if in kiln MC system installed)
  - Inlet or outlet control per schedule stop
- Accurate, high frequency user-configurable charge graphs
- Adjustable fan reversal timer and speed
- Vent and control valve position display with manual override
- Manual restart on power failure
- Archiving of all recorded data
- Basic reporting package which includes: charge and packet details, runtime data and events log
- EMC and RH display
- Configurable alarms including: priority, pager, audible, visual, logging and acknowledge.
- Charge builder including: drag and drop chamber loading, and chamber queues
- Remote modem access and support

Advanced Options

These packages can be integrated with the base **Dryspec 2000** package to give enhanced and extended functionality.

Airflow Indicator

- On screen display of fillet velocity
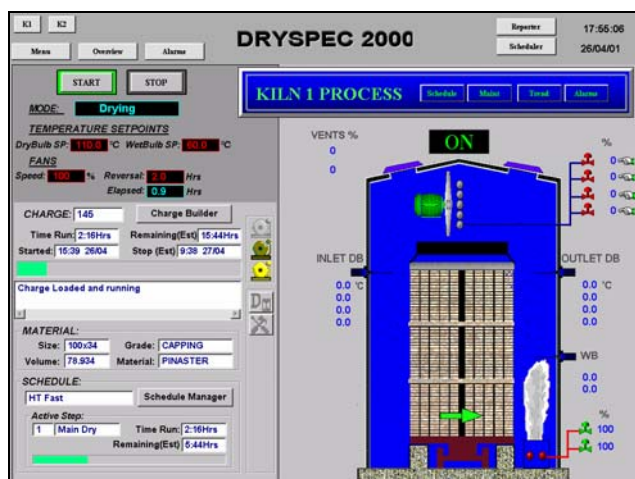
Advanced Scheduler

- Conditional set point ramps
- On set point timing
- Advanced set point control including:
  - Additional outlet control options
  - Additional MC end-point options
  - Zone control (requires Dryzone moisture content measurement system)

Advanced Reporter

- Extended charge, production and endpoint reporting
- Downtime/Utilisation reporting

Energy management: used for optimising energy use

This module interfaces the kiln drying and heat plant/energy systems and is customised to suit site requirements and capabilities, and includes:

- Dynamic Priority: prioritises kiln chambers depending on the stage of drying
- Flow/Pressure/Temperature: a combination of these (depending on hardware fitted) can be used to monitor and manage kiln energy usage
- External Energy set point, where the energy limit can be set from the energy supply system.

KILNWATCH 2000

Kilnwatch 2000 is an easy to use, efficient and low capital cost computer control system specifically designed for smaller sites.

Features:

- Start – stop
- Dry bulb temperature control (one or more zones)
- Wet bulb temperature control
- Fan operation & reversals
- Heating set point ramps
- Steam cycle control
- Single batch trending
- End point on time TDAL (optional), or Moisture Content (optional)
- Alarms
- Modem access (optional).

KILNWATCH 1000

Kilnwatch 1000 is a simple electronic control system mainly for the smaller timber drying installations having one or two kilns. Each kiln has a dedicated Kilnwatch panel incorporating discrete programmable controllers, timers, relays and a chart recorder needed to perform:

- Start – stop function
- Dry Bulb Temperature Control
- Wet Bulb Temperature Control
- Fan operation and reversals
- Heating set point ramps (optional)
- Steaming cycle control
- Batch record chart
- Drying time or TDAL endpoint (optional)
- Alarms.