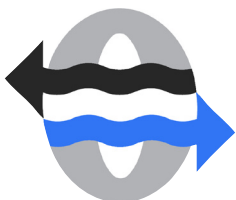


Rubber Baler Control Panel

Features

Interface



Features

15" Color Touch Screen

The operator interface is designed to allow an operator the ability to easily monitor the baler system and recognize problems quickly. Built-in troubleshooting capabilities virtually eliminate the need for a laptop computer (see Ethernet Communications).

Pushbutton Panel

The custom photo-etched panel featuring a manual/ auto mode selector switch allowing for manual (joystick) or automatic control of the baler. Baler cylinders reset automatically to the baler's ready position when initially put into automatic mode.

Motion Controller

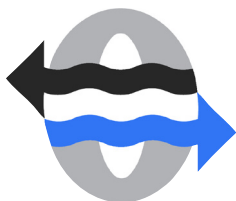
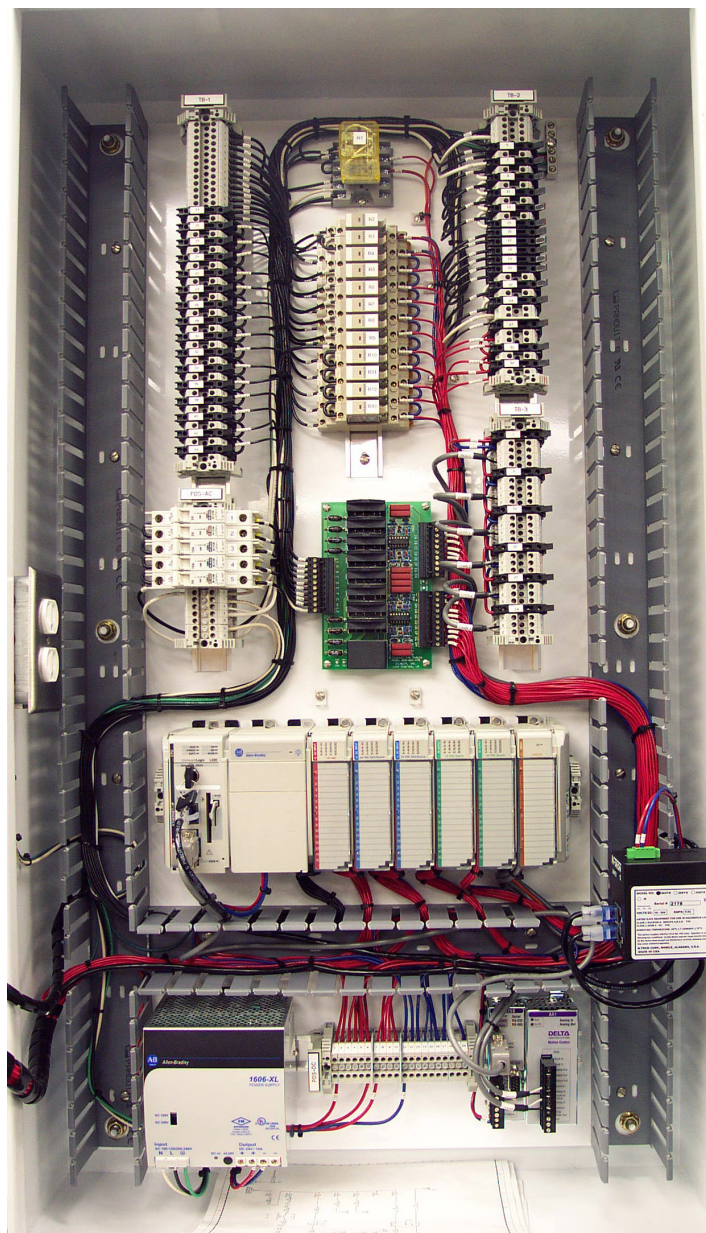
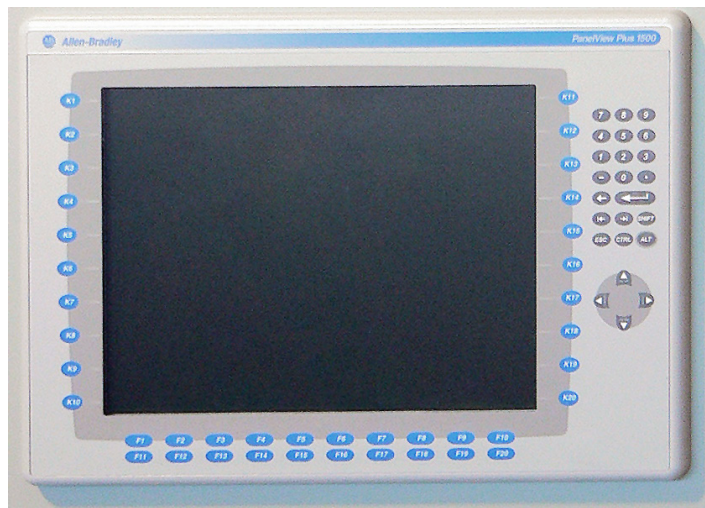
This controller provides precise position and velocity control of the cover cylinder. It is also adaptable to a two or three position cover. The controller provides smooth acceleration and deceleration without the need for high maintenance mechanical cylinder cushions, extending the life of hydraulic components and reducing stress on the baler foundation. The controller also features the ability to detect transducer failure.

Valve Coil Feedback Module

Manufactured by Oilquip, Inc., this module detects shorted solid state relays, PLC outputs, and open coil circuits.

Ethernet Communications

The 4-port Ethernet switch allows for quick connection to the PLC/HMI. This connection enables the operator to monitor the system from anywhere on the network.



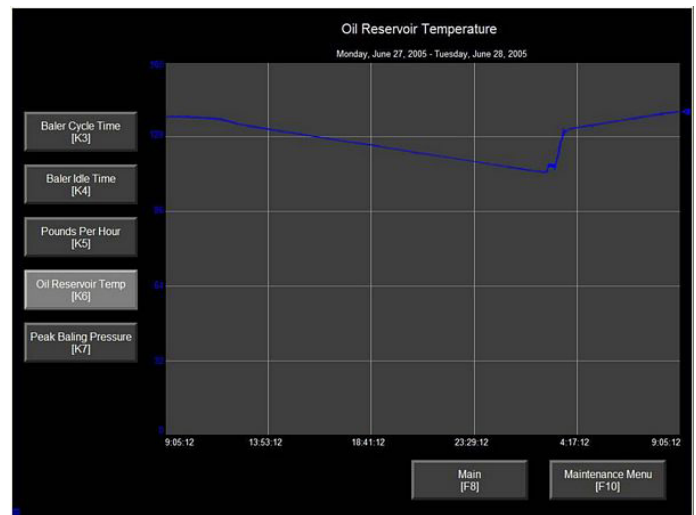
Operator Interface

The screen provides animated cylinder movement, giving the operator a real-time simulation of the baler's actions. The touch screen also allows for the operator to quickly view and change timers with just one touch of the screen.

Standard displays include production rate calculations and hydraulic power unit information, including pump run status and oil reservoir temperature. Through this interface the operator has the ability to calibrate the position and pressure of the system transducers. The hydraulic schematic screen shows the valve coil on/off status. The set-point screen allows the operator to view and change the critical program and alarm set-points. Other screens include a PLC I/O screen and a baler sequencer monitoring screen.

The interface also includes data logging of key system values and alarm annunciation. An alarm history of 10,000 alarms can be accessed for ease of maintenance, including vital information such as alarm time, acknowledge time, and alarm description.

The interface also features multiple security levels, providing appropriate access levels for users from operators to maintenance personnel.



Left: operator main screen.

Top to bottom: set-point screen, data logging screen, PLC I/O screen.

