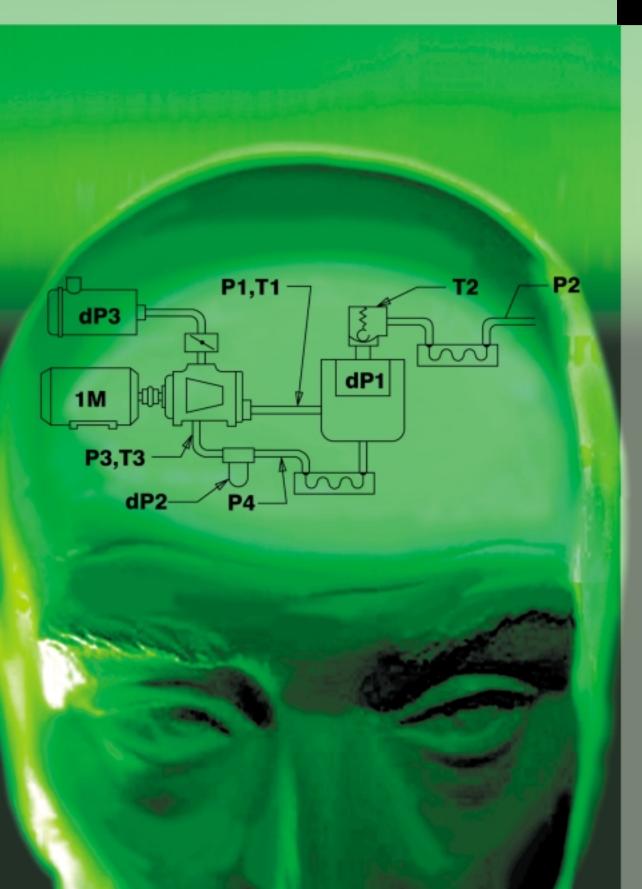
The Supervisor[™]





The Next Generation Controller, ready to serve you now.

the Supervisor...

The Controller of the future is here.

Safeguards your system

The Supervisor acts like a sentry for your compressed air system. It protects your compressor against malfunction. It monitors your compressor's operating conditions and indicates servicing needs. It controls your compressed air system pressure matching, and machine sequencing, if applicable.

SUPERVISOR CONTROLLER

Only the functions you need

With the Supervisor, you save money because you pay only for the functionality you need. This dedicated microprocessor provides all the needed features of a PLC without the PLC price.

Modular design, easy to expand

The Supervisor's modular design makes it flexible and easy to expand. The controller is a network of individual modules performing specific functions, daisy-chained together with a simple communications cable. Since each module contains a microprocessor and memory, processing power is automatically expanded, so application specific features can be easily added. Upgrades are easier, too, since the entire controller doesn't need to be replaced.

Control network components

Each Supervisor consists of a Display Module (LCD display and keyboard) and I/O Module (interface for sensors and relays). For machine sequencing or monitoring and control communications, a Communications Module with RS485, RS232 and DeviceNet channels is added to the network.

Control flexibility

The Supervisor offers a variety of control schemes, so you can optimize the scheme for each individual application. Control schemes include load/no-load, variable displacement control with Sullair's spiral valve, inlet modulation, and variable speed control. Adjustable unload and control band set points are available.

Communications flexibility

Infrastructure is in place to support a wide array of communications, monitoring and control options. All critical parameters that can be viewed or changed locally can be accessed remotely. Supervisor menus are sharp, clear, backlit and easy to understand.

protects, monitors and communicates

User-friendly, menudriven screens let you know what your compressor's thinking.

< Main Display

- Line 1. Machine state: Full Load, Loaded, Unloaded, Stopped, E-Stop, Remote Stop or Seq Stop
- Line 2. Fault or Warnings
- Line 3. Line pressure (P2)
- Line 4. Discharge temperature (T1)



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Status Menu (read-only)

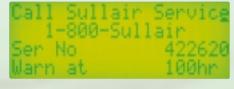
- All system temperatures
- All system pressures and differential pressures
- Machine loaded and run hours
- Number of load/unload cycles and starts
- Digital inputs and relay outputs status



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Control Parameters Menu (user changeable)

- · Unload pressure and control band set-points
- Time run unloaded in AUTO mode
- Drain interval and drain time for electric drain option
- Automatic restart time delay after a power interruption
- Wye to delta transition timer for wye-delta starters
- Select English, Spanish, French, German or Italian.





Maintenance Menu (user changeable)

- "Call for service" information. Can be programmed to include Sullair distributor's name and telephone number.
- Run hours countdown to warn maintenance required and replacement parts numbers for the consumables.

Run Hours 2104:0 Dischar9e Hi9h

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Fault Log Menu (read-only)

Last 16 faults

- Allows user to review the situation in depth.
- Shows possible fault patterns



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Sensor Log Menu (read-only)

- All sensor reading leading up to the last fault
 5 seconds apart for 1 minute; then 1 minute
- apart for 10 minutes
- Provides clear view of the series of events



Sequence by Remot<u>e</u> Seq Hrs 3411hr Com Number 1 Machines 6

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- Sequence Parameters Menu (user changeable)
- Sequence method
- Sequence hours counter
- Machine com number
- Sequencing pressure and recovery time parameters
- Minute, hour, day, month and year settings for real-time clock



System Display Menu (read-only)

- Shows the status of each compressor in a sequencing system
- Machine status, sequence hours and local line pressure

Loaded dp1 Separator High P2-Line 100psi T1-Dischar9e 211 "F

Pressure across separator hi9h, -Plu99ed separator elements, replace

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Help Function and Troubleshooting Guide are built in

- If a warning condition occurs, the LED on the "?" symbol will blink yellow, and the warning message will appear on the second line of the main display.
- If a fault condition occurs, the LED on the "?" symbol will blink red and the fault message will appear on the second line of the main display.
- If the LED is blinking yellow or red, the "?" key can be pressed to display the probable cause and potential remedies.

technical specifications



The Supervisor meets UL, CSA and CE codes.

The display module

- PC-proven (Intel® or equal) microprocessor
- 4 lines by 20 characters LCD for full text display
- 11-key, easy-to-understand keypad
- User-friendly, menu-driven screens
- Select English, Spanish, French, German or Italian.

The I/O module

- PC-proven (Intel® or equal) microprocessor
- Pressure, temperature and digital inputs required to monitor/control the compressor plus spares.
- Digital outputs for remote interface.

The communications module

- RS232 channel for connection to printers and modems
- RS485 channel for connection to PLCs and PCs
- Multiple sequencing methods include by-sequence hours, rotate hours, machine number and remote sequencing
- All critical parameters that can be viewed or changed locally can also be viewed or changed remotely through communications channels.









www.sullair.com

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