

# ConservAIR®

## **Saves Energy Maintenance Reminders Individual Compressor Control**



### **Here's How It Works**

The Source Mate monitors compressor discharge air pressure and temperature, and directs the individual compressor to start, load and unload based on your pre-selected set-points. It provides total control, including automatic timed shut-down.

The micro-processor based Source Mate can be retrofitted to any positive displacement air compressor to provide total compressor control. It was especially designed to enhance the operation of rotary screw compressors.

### **Benefits**

- Improves compressor control
- Saves energy
- Protects compressors from catastrophic failure
- Replaces obsolete compressor controls with micro-processors
- Provides information needed to develop appropriate maintenance schedules
- Alerts operator to maintenance problems such as blockages in the compressor's air filter, oil filter or separator element
- Event log tracks and explains failures
- Simplifies compressor connection to ConservAIR's compressor network manager, the Sequence Master

## **Source Mate**

## Monitors

- Discharge air pressure
- Discharge temperature
- Oil filter DP
- Air filter DP
- Separator DP
- Oil level
- Motor overload
- Running hours
- Loaded hours

## Control Outputs

- Motor contactor
- Wye/Delta contactor
- Load/unload solenoid
- Inlet valve actuator
- External alarm
- Drain solenoid

## Features

- Automatic start/stop
- Maximum pressure safety setting
- Maximum temperature safety setting
- Dedicated pressure, temperature and information displays
- Local menu set-point configuration
- Load/unload or modulation control
- Run time and hours loaded logs
- Event log
- Run time setting
- Maximum starts per hour setting
- Timer read-out information
- Drain cycle time setting
- Diagnostics menu
- Sensor calibration
- Power failure auto restart
- Service alarms
- Machine safety shutdowns
- Start-inhibit protection
- Emergency stop

## Communication

Through a RS485 serial port, the Source Mate provides communication to your:

- ConservAIR Sequence Master for networked integration of your compressed air system
- Other Source Mate compressor controls
- ConservAIR patented Intermediate Control to optimize the performance of your compressed air system

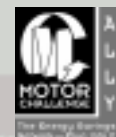
## Specifications

<b>Power</b> .....	24 VAC, 50 or 60 Hz
<b>Dimensions</b> .....	4"H x 8"W x 2.5"D
<b>Weight</b> .....	5 lbs.
<b>NEMA Rating</b> .....	NEMA 12/IP 55 for cabinet mounting (enclosure optional)
<b>Pressure Sensor</b> .....	4 - 20 ma
<b>Temperature Sensor</b> .....	KTY, -58° to +275°F
<b>Pressure &amp; Temperature Displays</b> .....	3-character, 2-line LCD - back lit
<b>Information Display</b> .....	16-character, 2-line LCD - back lit
<b>Key Pad</b> .....	8-button tactile

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