

# DE-3000 Panel Upgrade

**LOCATION:**

Alberta, Canada

**APPLICATION:**

Reciprocating Compressor Engines

**DISTRIBUTOR/REP:**

Gas Drive

**ALTRONIC PRODUCTS:**

DE-3000 Configurable Safety Shutdown and Control System with Analog Input Capabilities

**OVERVIEW:**

Gas Drive was challenged to devise a reasonably-priced upgrade that would offer contemporary electronic management and shutdown control of critical compressor suction, inter-stage, discharge temperatures and pressures. The system had to interact with existing pneumatics, yet be flexible enough to allow for future automation.

Further, the system needed to be priced right to justify the upgrade in an economy where production costs rule. Operator buy-in was also essential, as the customer was searching for a company-wide “standard” upgrade control panel.

Existing equipment included a non-functioning Accunox air/fuel ratio controller, a recently added Altronic



*Existing pneumatic control panel with compact DE-3000 panel mounted on left side.*

digital tach/overspeed shutdown, and an Altronic 18-point pyrometer.

An Altronic DE-3000 Div. 2 Control System, mounted into a new cabinet, allows for easy and clean expansion as the compressor package moves toward full automation.

A single input board was mounted inside the DE-3000 in order to keep costs in check. A second board can easily be installed once auto speed and suction control are added.

Among the installed inputs are: head temperature, vibration shutdown, auto start, pre and post



*DE-3000 panel has room for expansion.*

lube, panel shutdown solenoid suction, interstage, discharge temperature, suction, interstage, discharge pressure, ESD button, and engine RPM.