

## Forced Draft Combustion Safety Controller

## Model: ACL - CSC400-FD





#### Approvals

CSA approved for Class I Div 2 location CSA B149.3-20 C22.2 No 199-M89

E60730-1-2013

ANSI Z21.20-2014

CAN/CSA C22.2 No. 60730-2-5-2014 Compliant, meets NFPA standards

(See product specification sheet on reverse)

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1-877-638-5234 (403) 638-5234

The ACL Forced Draft CSC400-FD Combustion Safety Controller is an advanced, reliable Burner Management System that provides burner ignition and air/fuel ratio control for forced draft burner applications. It monitors three separate thermocouple inputs that can be used for temperature control in process applications such as

> Line heaters, Treaters Re-boilers, Dehydrators Tanks, Separators Combustors Incinerators Flare Stacks

The CSC400-FD is simple to use but powerful in its capabilities and safety controls. The CSC400-FD provides control for fuel and air ratios for fine tuning. The CSC400 provides two 4-20 mA inputs and outputs for shutdown, monitoring, and/or transmitter requirements. Modbus communications for measurement and control is provided as standard.

> Clear Rush Co. Box 1898, 5406 Township Road 325B Sundre, AB T0M 1X0 Canada



### Forced Draft Combustion Safety Controller

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Features	
Type 4X enclosure, corrosive resistant and weatherproof, large and accessible	
Easy to navigate menu system	
Pre-purge, post-purge times configurable	
Pressure transmitter input for combustion air	
Air/gas ratio tuning control	
All-in-one design. No need for external enclosure or additional controls.	
Remote Stop and Start via Modbus or Direct Control	
Pilotless or continuous pilot operation. Reliable pilot system.	
12/24VDC and solar	
Data logging & acquisition capabilities	
Modbus communications built in	
Low power consumption (< 7.5W max, both ignitors, without solenoids)	
100% Failsafe design: Ignition Modules CSA certified to C22.2 60730-2-2014, ANSI Z21.20-2014	
Customizable 4-line display	
Onboard solenoid driver for power reduction to solenoids and peak-hold solenoids	
Three adjustable Type-K thermocouple inputs for monitoring process temperatures and high temperature (Type-S also available)	
Full annunciation of shutdowns: Flame Fail, Power Fail, Level, Remote S/D, Pressure, High Temperature (TC2, TC3), Proof of Closure, 4-20mA Input Alarm/Shutdowns.	
Monitor gas flow and tank levels	
Two 4-20 mA Inputs, with Local Power-Sourcing Availability and Optional Control for TMain solenoids. Shutdown capat	ole.
Two 4-20 mA Powered Outputs, Linear or Proportional Valve Control (optional full PID also available)	
Single or Dual Burner Controls. Three solenoid outputs each (6 total).	
Three solenoid outputs for each burner: Pilot, Main, Temperature Main, up to 3A each	
Ignition module mounted on board or remotely	
Two Auxiliary Relays (NC-COM-NO) for optional external indication and/or controls (30VDC, 1A max)	
Brownout Protection - CSC400 will continue in previous state if a brownout/blackout condition is detected	
Operational ambient temperature of -40°C to +60°C (Celsius or Fahrenheit readout)	

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