



# ACL

Manufacturing

A Division of ClearRushCo.

## Combustion Safety Controller

### Model: ACL - CSC400



#### 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)

The ACL CSC400 Combustion Safety Controller is an advanced, reliable Burner Management System that provides burner ignition and flame fail sensing for single or dual burner applications.

Line heaters, Treaters

Re-boilers, Dehydrators

Tanks, Separators

Combustors

Incinerators

Flare Stacks

The CSC400 is simple to use but powerful in its capabilities and safety controls. It monitors three separate thermocouple inputs that can be used for temperature control in process applications such as tanks, line heaters, re-boilers or any other applications where accurate temperature monitoring and/or control is required. The CSC400 provides two 4-20 mA inputs and outputs for shutdown, monitoring, and/or transmitter requirements, as well as Modbus communications built in.

[www.clearrushco.com](http://www.clearrushco.com)

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

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Sundre, AB T0M 1X0  
Canada



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## Features

Type 4X enclosure, corrosive resistant and weatherproof, large and accessible
Easy to navigate menu system
Remote Stop and Start via Modbus or Direct Control
Pilotless or continuous pilot operation
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 capable.
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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