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Auto-Start/Stop Controller — Cascade



Features

- Durable encapsulated protection against dirt, water, and dust – rated NEMA4 and IP65
- Operates during low battery blackouts
- Compatible with Electronic and Mechanical engines – ECU, MPU, AC Frequency
- J1939 Ready Works directly with MurphyLink J1939 PowerView gages



Description

The Cascade controller offers automatic start and stop control with easy configuration for a broad number of applications.

This auto-start controller is designed to fit any engine-driven application requiring a simple and robust automatic start and stop sequence. Pumps, Compressors, Grinders, Power Units and Generators are just few of the industrial applications for the controller.

The Cascade controller is fully compatible with all major engine types. Whether you are running mechanical or J1939 engines, the controller will work with your application.

Here are some of the unique features of the Cascade that only Murphy can offer at our competitive price.

- **Durability:** Encapsulated to protect it against dirt, water and dust, along with a compression gasket to fully seal it to the panel. Cascade is rated NEMA4 and IP65.
- Low Battery Blackouts: Operates in total blackout for a minimum of two seconds.
- Compatibility: Accept MPU, AC Frequency and ECU speed signals and can operate with standard and J1939 engines.
- Inputs and Outputs: The Cascade Inputs and Outputs are ruggedly protected and fault tolerant.
- J1939 Ready: Works directly with Murphy's J1939-ready PowerView gages, just plug and go, no sender is required.
- CD101 Cascade Configuration Tool: Allows quick setup and loading of parameters into a Murphy standard Cascade via a PC software tool.

Specifications

Powerinput: 9-35VDC continuous - operates during total blackout for 2 seconds mini-
mum.

Powerconsumption:SleepMode(Manual):1mAtypical;SleepMode(Automatic):4mA typicalRunningMode(Manual):20mAtypical;RunningMode(Automatic):24mA typical.

Operating/Storage temperature: -40 to 85°C; (-40 to 185°F).

Humidity: 0-100%, non-condensing.

- Housing:UVstabilizedblackpolycarbonateandepoxyencapsulation.Weathertightand includes sealing gasket to keep moisture and debris out of enclosure. Properly mounted controller will maintain NEMA4 / IP65 rating of enclosure.
- Vibration: Rated to 6G.

Impact: Rated to 10G.

- Inputs: Dedicated digital inputs for low oil pressure, high engine temperature, remote start, DCchargefail/Alternatorfail. Twoaux inputs are configurable formultiple functions.
- Outputs:7–4auxiliary,configurable(1ADCprotected).3dedicatedoutputsforCrank, Fuel/ECU, Alternator excitation.

Crank attempts: 3, 5, 10, Continuous.

Crank Rest: 5-60 seconds, adjustable.

Shutdown lockout time delay: 5, 10, 15, 20, 25, 30 seconds.

 $Crank\,disconnect\,speed\,setting: Field\,settable\,0-9999\,RPM\,(16-60Hz\,AC\,freq\,input).$

Overspeed/underspeed trip point setting: ±5 to 50% of nominal. Speedsensinginputs:Magneticpickup(5-120VACRMS/0-10kHz)&ACfrequency (30-600VAC RMS / 16-80 Hz).

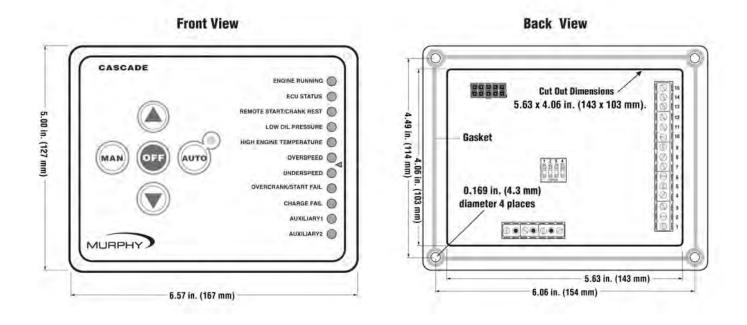
- CANbusinterface:Directlyreadsenginespeed,&enginestatusdata*fromSAE-J1939 enabled engines.
- MODbus interface: In J1939 applications drives PVA series analog gages.

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^{*} Enginestatusdatalimitedtolowoilpressure,highenginetemperature, "Waittostart" status, Warning & Fault lamp information, and communication error.

Front View

Back View



How to Order the Cascade Controller

To Order specify: CD101 P/N 40700259

Shipping Weight: 1 lb. (453 g) approximately.

Shipping Dimensions: 5.1 x 6.7 x 1.6 inch (130 x 170 x 41 mm) approx.

Accessories

CD101 Cascade Configuration Kit P/N:40090045

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Warranty - A limited warranty on materials and workmanship is given with this FW Murphy product. A copy of the warranty may be viewed or printed by going to http://www.fwmurphy.com/warranty