



ACE™

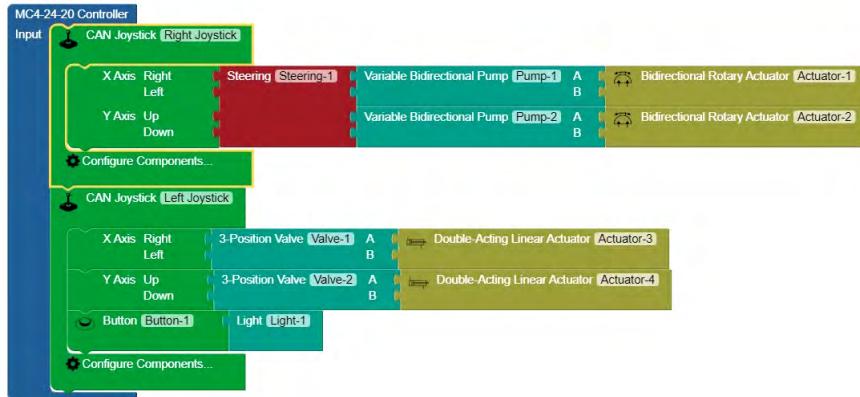
What Will You Build?

Build With Drag-and-Drop Blocks

U.S. Patent 10,402,504

No programming experience? No problem.

ACE helps machine specialists create effective control programs using a toolbox of input, output and feature blocks that drag-and-drop together.

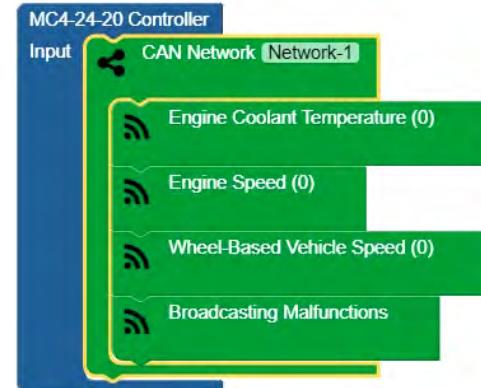


Ready-to-use blocks handle the hard part of integrating human inputs, reading CAN devices and sensors, applying logic, and mapping it all to outputs such as valves, pumps and lights. Prebuilt logic blocks also make it quick and easy to design complex control schemes like steering.

Work Faster With Built-In Libraries

ACE includes a built-in library of CAN J1939 parameters to save time building your project. Search for CAN inputs by name and SPN, or browse by category to add them to a CAN network block. Adding parts to your project is also easy with the built-in Parts Catalog. Find ready-to-use Sun Hydraulics® valve and Murphy® PowerView® display part blocks, or save time by adding your most frequently used parts (sensors, joysticks, valves and pumps) to your local database.

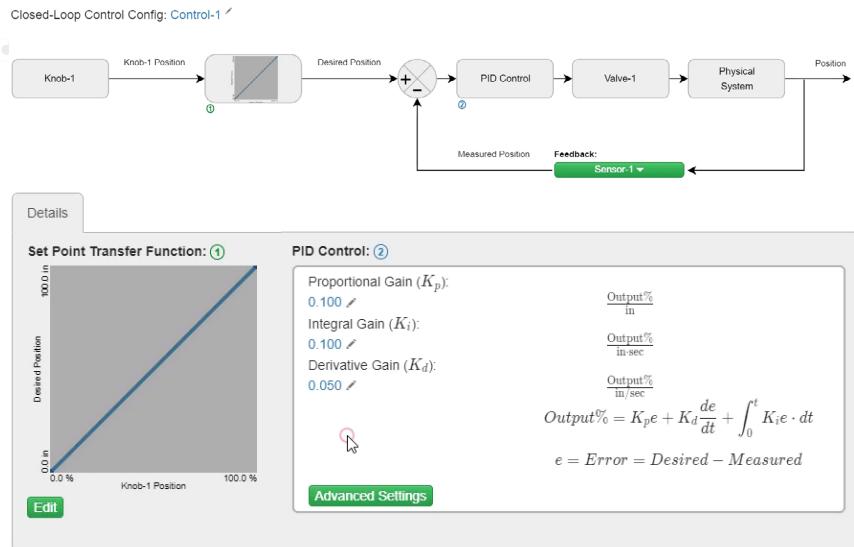
Part Datasheet



Design Closed-Loop Controls With Confidence

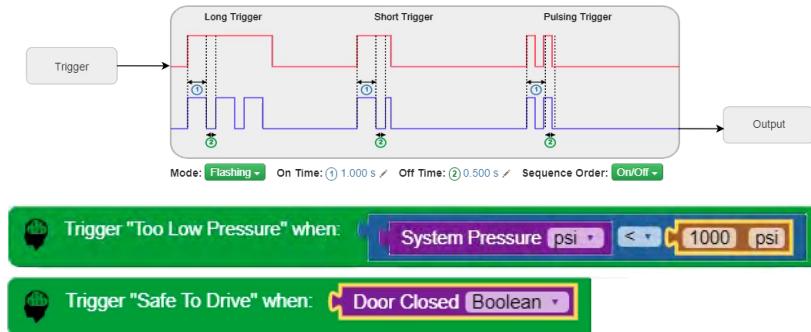


ACE doesn't sacrifice power for convenience. Advanced closed-loop control schemes aren't just possible, they are easy to implement. With the built-in closed-loop control block, ACE lays out the function visually and to help you understand and tune for effective, efficient control.



Create Smart Timers and Triggers

Setting up simple or advanced logic-based triggers only takes a few clicks. Build timers using drag-and-drop blocks for comparisons, inputs, outputs, math and more.



Generate Helpful Wiring Lists

From		To
Connector ▾	Pin ▾	Description ▾
MCx A	7	Input A07 (Frequency Capable)
5V Power Supply (+)	5V Power Supply (+)	Available 5V sensor supplies: MCx A pin 1 (Confirm usage does not exceed 500mA), MCx C pin 1 (Confirm usage does not exceed 500mA).
MCx B	2	Output B02
VBatt Power Supply (-)	VBatt Power Supply (-)	Headlights (Output Control)
MCx A	10	Input A10 (Frequency Capable)
MCx A	1	Sensor Supply 1 (+) (Confirm usage does not exceed 500mA)
MCx A	13	Sensor Supply 1 (-) (Confirm usage does not exceed 500mA)
		Left Tread (Feedback)
		Left Tread (Feedback)

When your system is fully configured, ACE takes the headache out of harnessing with auto-generated wiring lists exportable in PDF and Excel-friendly formats.

Design Coordinated Displays

Configuring a display connected to the controller is fast and easy with ACE. Use the built-in library of elements and icons to design effective and attractive user interfaces that are ready-to-load onto Murphy PowerView® displays. When designing is complete, ACE automatically defines the CAN communication layer between the controller and display.

General Advanced Settings

Gauge Data Source: RPM [Change](#)

Type: Radial Gauge

Gauge Data Range:

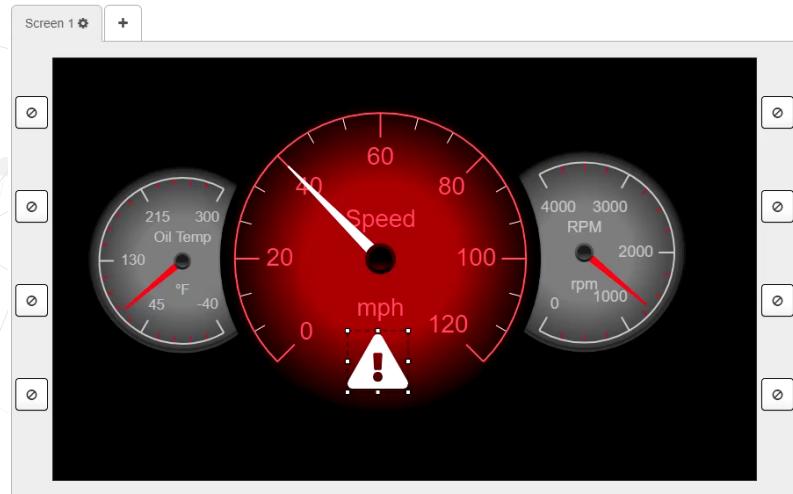
Customize Range [?](#)
Min: 0 rpm
Max: 4,000 rpm

Labels:

Custom Gauge Label: RPM [?](#)
 Customize Unit Label: rpm [?](#)

Gauge Appearance:

Major Tick Count: [?](#) 5
Minor Tick Count: [?](#) 3
 Customize Decimal Places: 0 [?](#)
Start Angle: [?](#) 240.0°
Sweep Angle: 240.0°
 Sweep Counterclockwise



Built For uControl™ Mobile Machine Controllers

Controller Config: MC4-26-20 Controller

Position Value

r-1 Input (Frequency Capable): 5 of 20 Malfunctions

tick-1 Input: 0 of 4

Output: 6 of 10 [?](#)

Output (Current Source): 4 of 10

Sensor Supply: 1 of 2

Variable Bits

Variable Bits

MC4-26-20

MC3-21-10

Controller CAN Source Address

P A B C

P A B



Use uControl mobile controllers to get the most of any machine with flexible universal inputs and ultra-precise software-selectable outputs. Available in a range of I/O options, uControl mobile controllers are the perfect fit for a variety of equipment needs and applications. When needs change, ACE makes it easy to scale your projects up or down the controller family without having to rebuild the entire project.

1900104 09-2021



www.enovationcontrols.com

CONTACT
sales@enovationcontrols.com
 +1 918.317.4100

CORPORATE HEADQUARTERS
5311 S 122nd E Ave
Tulsa, Oklahoma, USA 74146
United States • United Kingdom • India • China



FM 28221 (Tulsa, OK-USA)
FM 29422 (UK)