

ACETM

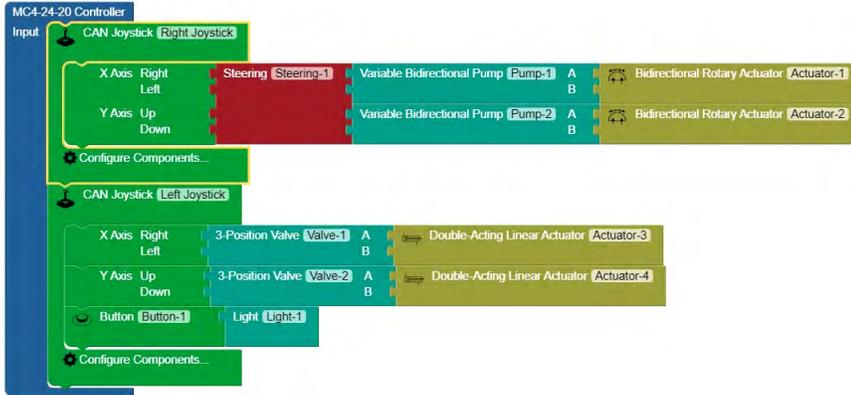
What Will You Build?

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.

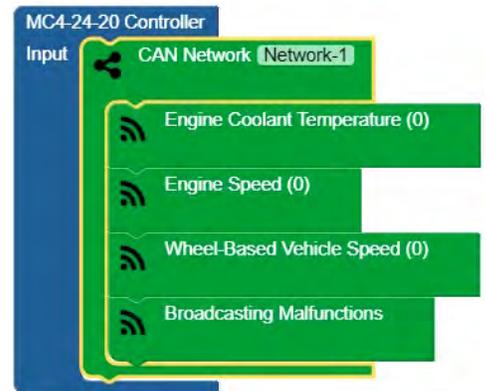
CAN Inputs | CAN Malfunction Broadcasting

Speed

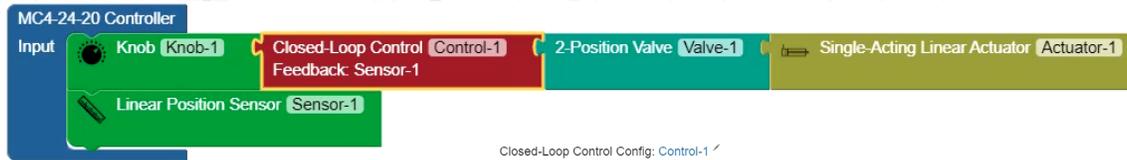
- Temperatures
- Pressures
- Position
- Speeds
 - Engine Speed ✓
 - Power Takeoff Speed
 - Power Takeoff Set Speed
 - Wheel-Based Vehicle Speed ✓
 - Cruise Control Set Speed
- Flows
- Malfunctions/Warnings
- Miscellaneous
 - Engine Percent Load At Current Speed

Part Datasheet

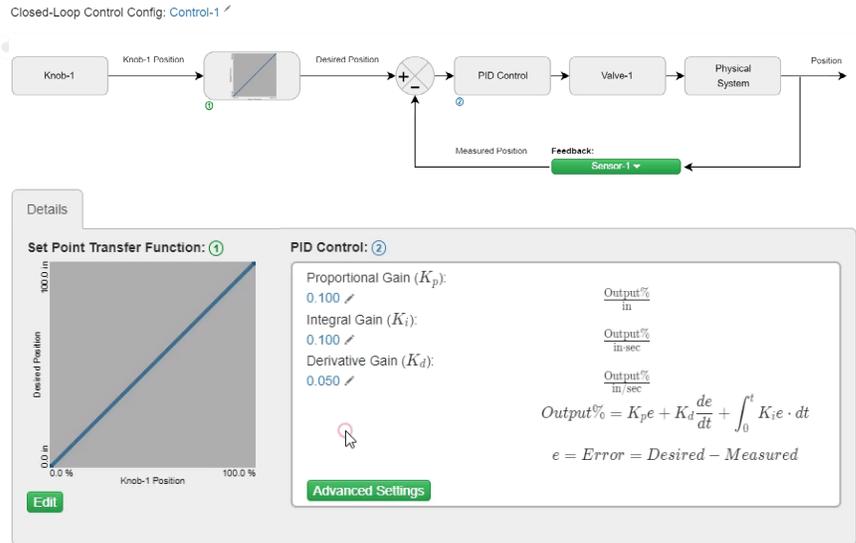
Attribute	Value
Model Code	FPBFXDN212
Valve Type	Throttle Control
Operation	Solenoid Operated
Control	Proportional
Ports	2
Positions	2
Mounting Type	Screw In
Valve Interface	Other
Pressure Rating	345 Bar
Flow Rating	18.9 L/Min
Max Ambient Temperature	50.0 °C
Min Ambient Temperature	-30.0 °C
Coil Voltage Rating	12.000 V
Max Current	1.140 A



Design Closed-Loop Controls With Confidence

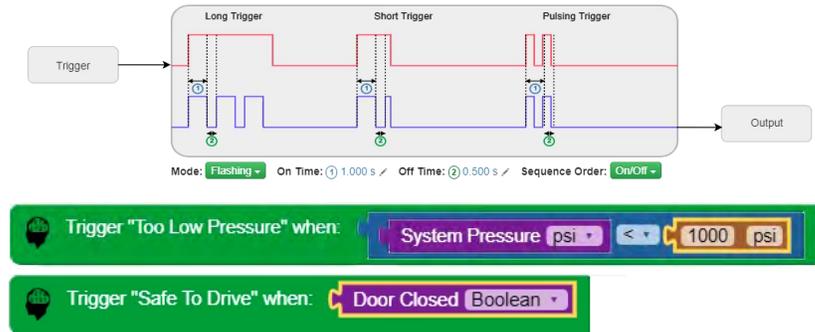


ACE doesn't sacrifice power for convenience. Advanced closed-loop control schemes aren't just possible, they are easy to implement. With the built-in closed-loop control block, ACE lays out the function visually and to help you understand and tune for effective, efficient control.



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.



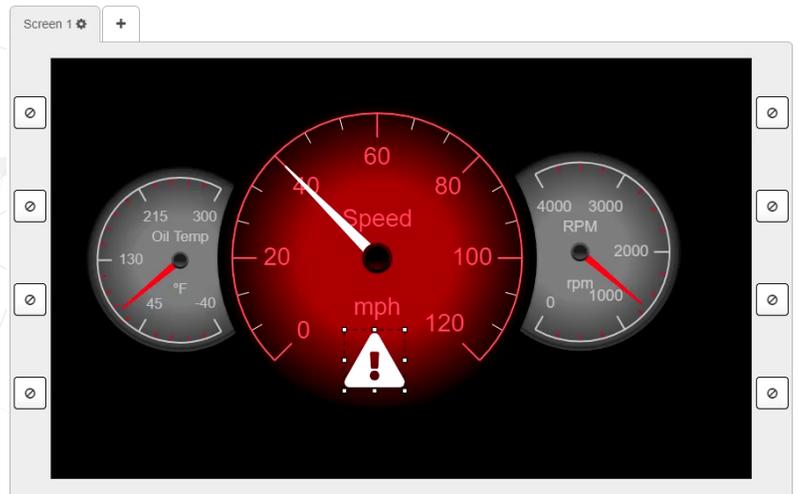
Generate Helpful Wiring Lists

From	Pin	Description	To
MCx A	7	Input A07 (Frequency Capable)	Green Button
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).	Green Button
MCx B	2	Output B02	Headlights (Output Control)
VBatt Power Supply (-)	VBatt Power Supply (-)		Headlights (Output Control)
MCx A	10	Input A10 (Frequency Capable)	Left Tread (Feedback)
MCx A	1	Sensor Supply 1 (+) (Confirm usage does not exceed 500mA)	Left Tread (Feedback)
MCx A	13	Sensor Supply 1 (-) (Confirm usage does not exceed 500mA)	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

Search Icons × All Categories

Built For uControl™ Mobile Machine Controllers

Controller Config: MC4-26-20 Controller

Position Value

Malfunctions Controller CAN Source Address

- ✓ Input (Frequency Capable): 5 of 20
- ✓ Input: 0 of 4
- ✓ Output: 6 of 10
- ✓ Output (Current Source): 4 of 10
- ✓ Sensor Supply: 1 of 2

MC4-26-20

MC3-21-10



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.

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