# Macquarrie





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## **Build With Drag-and-Drop Blocks**

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.

```
MC4-24-20 Controller
Input Lever Lever-1 2-Position Valve Valve-1 Actuator Placeholder
Single-Acting Linear Actuator Actuator-1
```

```
MC4-24-20 Centroller
Input

CAN Joystick Right Steering Steering 1

Variable Bidirectional Pump Rum 2

A B Bidirectional Rotary Actuator Actuator 2

Variable Bidirectional Pump Rum 2

A B Bidirectional Rotary Actuator Actuator 3

CAN Joystick Right 3 Position Valve Valve 1

A Double Acting Linear Actuator Actuator Actuator 3

Edit Configure Components.

Light Contigure Components.

Light Contigure Components.

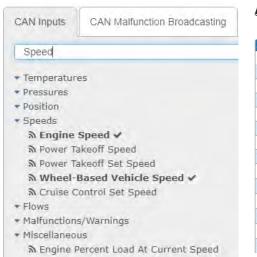
Configure Components.

Light Contigure Components.
```

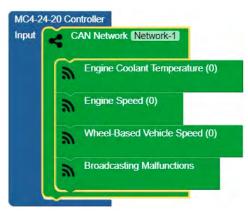
Ready-to-use blocks handle the hard part of integrating human inputs, reading CAN devices and sensors, applying logic, and mapping it all to outputs such as valves, pumps and lights. Prebuilt logic blocks also make it quick and easy to design complex control schemes like steering.

#### **Work Faster With Built-In Libraries**

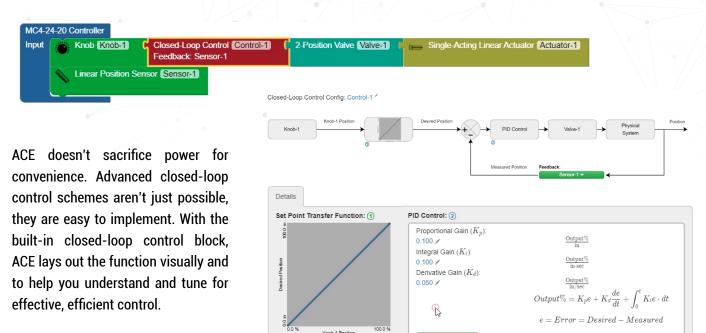
ACE includes a built-in library of CAN J1939 parameters to save time building your project. Search for CAN inputs by name and SPN, or browse by category to add them to a CAN network block. Adding parts to your project is also easy with the built-in Parts Catalog. Find ready-to-use Sun Hydraulics® valve 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.





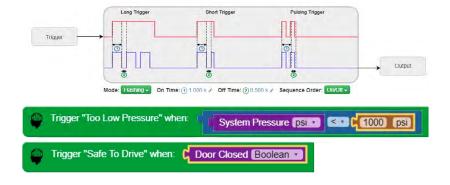


## **Design Closed-Loop Controls With Confidence**



#### **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.



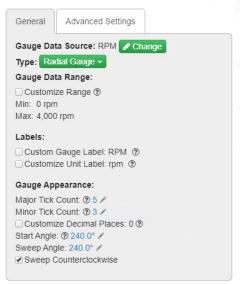
#### **Generate Helpful Wiring Lists**

From			То
Connector	Pin ← ♥	Description ▲ ▼	Connector
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)

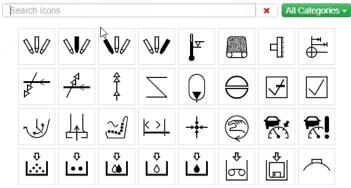
When your system is fully configured, ACE takes the headache out of harnessing with auto-generated wiring lists exportable in PDF and Excel-friendly formats.

## **Design Coordinated Displays**

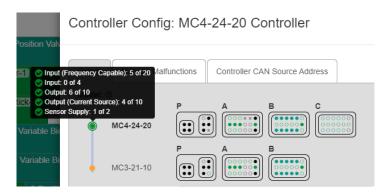
Configuring a display connected to the controller is fast and easy with ACE. Use the built-in library of elements and icons to design effective and attractive user interfaces that are ready-to-load onto Murphy PowerView displays. When designing is complete, ACE automatically defines the CAN communication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







### **Built For uControl™ Series Controllers**





uControl machine controllers 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 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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