

Built to Perform in High Heat  
and High Vibration Areas

Easy to Scale Up or Down  
Within the Hardware Family

Features Universal Inputs and  
Flexible Proportional Outputs

Open/Short Circuit Protection  
and Overcurrent Protection



## FLEXIBLE CONTROLLER FOR HARDWORKING EQUIPMENT

Part of the complete series of scalable uControl™ mobile controllers, the MC2-18-6 offers high performance fluid power control. Featuring multiple CAN interfaces, open/short circuit protection, and flexible universal inputs, MC2-18-6 controllers deliver extreme durability with precision control for any job.

Simplify your equipment control using reliable, software selectable, universal outputs with feedback. The MC2-18-6 controller works great with extended low voltage operation and also provides short circuit and overload protection. MC2-18-6 controllers feature a rugged IP69K-sealed aluminum enclosure with gel potting that allows it to

be mounted where you need it, including high-heat and high-vibration areas like in engine compartments or on attachments.

### FLEXIBLE PROGRAMMING OPTIONS



**CODESYS**

Advanced programming environment with support for structured text, ladder logic, and block diagrams.

**IP  
69K**



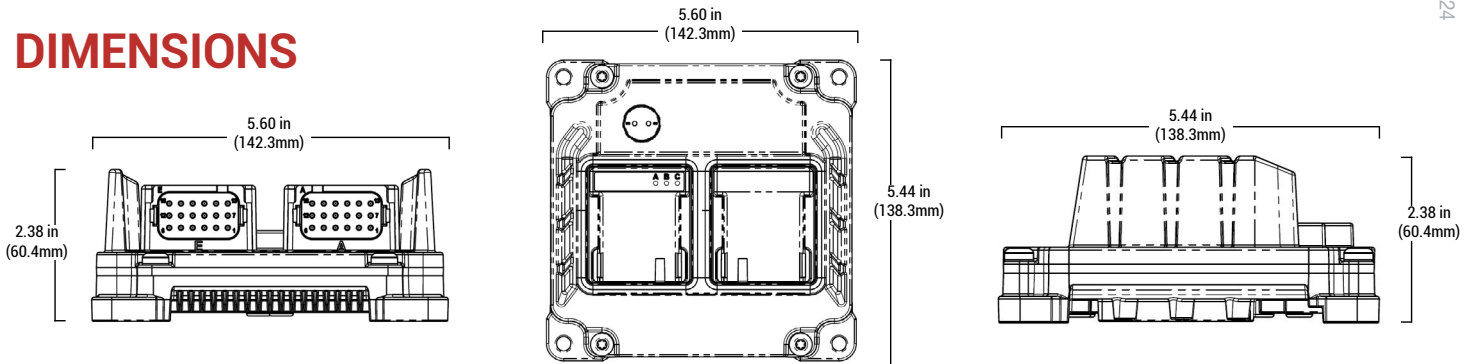
**e-Mark ISO-13766  
REACH / RoHS**

[ENOVATIONCONTROLS.COM/MC2-18-6](http://ENOVATIONCONTROLS.COM/MC2-18-6)

# uControl™ MC2-18-6

2210001  
02-2024

## DIMENSIONS



## PRODUCT SPECIFICATIONS

### 18 INPUTS

|                                   |    |
|-----------------------------------|----|
| UNIVERSAL ANALOG / HIGH FREQUENCY | 4  |
| UNIVERSAL ANALOG                  | 14 |

### 6 OUTPUTS (SOFTWARE SELECTABLE)

|                                      |   |
|--------------------------------------|---|
| 4A PWM (FEEDBACK)                    | 2 |
| DUAL-RANGE PWM 4A / 0.5 A (FEEDBACK) | 4 |

### HARDWARE

|                  |                                                                                                   |
|------------------|---------------------------------------------------------------------------------------------------|
| CAN 2.0B / J1939 | 2 Channels                                                                                        |
| SENSOR SUPPLY    | (2) 400mA max @ 5 or 10 VDC [Software Selectable Voltage]                                         |
| CONNECTORS       | J1 (18 pin - E key) - DT16 - 18SE-K004<br>J2 (18 pin - B key) - DT16-18SB-K004                    |
| LED INDICATORS   | (1) Green - Power Status<br>(1) White - Software Configurable<br>(1) Blue - Software Configurable |
| DIMENSIONS       | 5.60 x 5.44 x 2.38 in<br>(142.3 x 138.3 x 60.4 mm)                                                |

### POWER SUPPLY

|                            |                                                                                     |
|----------------------------|-------------------------------------------------------------------------------------|
| SUPPLY VOLTAGE             | 6-32 VDC, Nominal Operation @ 12 / 24 VDC                                           |
| PEAK SUPPLY VOLTAGE        | Power supply suppression limits voltage to 55 Volts for duration of Load Dump Event |
| MAXIMUM CONTINUOUS CURRENT | 24A                                                                                 |
| IDLE CURRENT 12/24 VDC     | < 200mA @ 12VDC<br>< 100mA @ 24VDC                                                  |
| STANDBY CURRENT 12/24 VDC  | < 5mA @ 12VDC<br>< 2.5mA @ 24VDC                                                    |
| SLEEP PIN                  | Control sleep and wake functionality                                                |

### ENVIRONMENTAL

|                       |                                                                                                                                                                                                           |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| OPERATING TEMPERATURE | -40° to +221°F (-40° to +105°C)                                                                                                                                                                           |
| STORAGE TEMPERATURE   | -40° to +257°F (-40° to +125°C)                                                                                                                                                                           |
| OPERATING ALTITUDE    | 0 - 4000 meters                                                                                                                                                                                           |
| PROTECTION            | IP67, IP69K with Protective Boot                                                                                                                                                                          |
| VIBRATION             | 5.82 Grms, 8 hours per axis                                                                                                                                                                               |
| SHOCK                 | ±50G, 6ms                                                                                                                                                                                                 |
| HOUSING               | Cast aluminum housing, soft-gel potted for extreme ruggedness and durability                                                                                                                              |
| EMC/EMI               | 2014/30/EU (CE / E-MARK), CISPR 11, CISPR 25, EN 60945, EN 61000-4-2, EN 61326-1, SAE J1113-2, SAE J1113-4, SAE J1113-11, SAE J1113-12, SAE J1113-13, SAE J1113-21, SAE J1113-22, SAE J1113-26, SAE J1455 |

**WARNING:** This product may expose you to chemicals which are known to the State of California to cause cancer. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

FOR MODEL & PART INFORMATION

[ENOVATIONCONTROLS.COM/MC2-18-6](http://ENOVATIONCONTROLS.COM/MC2-18-6)

FOR MANUAL & SUPPORT DOCUMENTS

[SUPPORT.ENOVATIONCONTROLS.COM](http://SUPPORT.ENOVATIONCONTROLS.COM)

FOR SUPPORT & WARRANTY

[ENOVATIONCONTROLS.COM/SUPPORT](http://ENOVATIONCONTROLS.COM/SUPPORT)

## SALES CONTACT



### CONTACT

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