

# M-FLEX 4.3" COLOR DISPLAY

The M-Flex 4.3" Color Display is designed for severe duty, outdoor mobile applications and built to withstand the harsh temperatures, shock and vibration, moisture and electrical transients that are common to these environments.

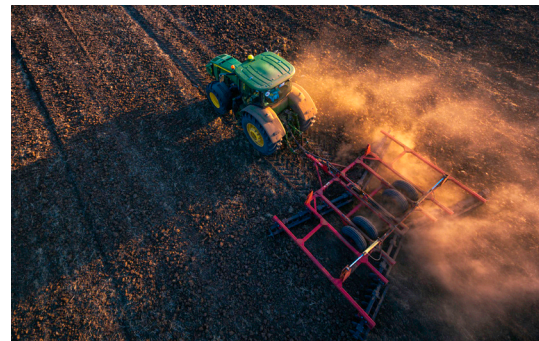


**M-Flex**  
DISPLAYS

IP67  
IP69

12V  
24V

RoHS  
compliant



## FEATURES



High brightness LCD (800cd/m2) for true outdoor viewing in sunlight. Wide viewing angle.



250/500/1000kbps CAN bus speeds.



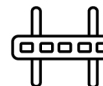
Touch GFX Ready.



Configurable inputs and outputs for customizing controller to each application.



CAN protocol J1939, CANopen, NMEA 2000.



Marlin snap-in panel mounting and RAM-mount available.

## SPECIFICATIONS

Specifications subject to change without notice. \ Revised 07.23

<b>Supply Voltage</b>	8 - 36VDC operating range, reverse polarity protected.
<b>Protocol</b>	SAE J1939 CAN 2.0A and 2.0B compliant, CANopen, NMEA 2000.
<b>Baud Rate</b>	250/500/1000 kbps.
<b>CAN Port</b>	One CAN Port with option for 2nd CAN port.
<b>Inputs</b>	2 or 4 configurable inputs that can be configured as analog, digital or frequency, PWM, resistive or quadrature encoder.
<b>Outputs</b>	2 half-bridge PWM outputs. Configurable as PWM proportional, configurable as a source or sink. Optional 2 high-side outputs rated 3.0A maximum continuous current for on/off control.
<b>Sensor Power</b>	Power supply rated 5VDC 500mA max.
<b>LCD</b>	Brightness: 800 cd/m <sup>2</sup> . Resolution: 480 X 272 pixels. Viewing cone: 80/80/80/80.
<b>LED Indicators</b>	Two RGB multi-color LEDs for status and alarm indication.
<b>Keypad</b>	4 pushbuttons for screen navigation and 4 pushbuttons for function selection and parameter setting.
<b>Ingress Protection</b>	IP67 (1 meter submersion for 30 minutes) and IP69K pressure wash, >15° nozzle, with appropriate mating connector boot installed.
<b>Operating Temperature</b>	-40° to 85°C (-40° to 185°F).
<b>Storage Temperature</b>	-40° to 85°C (-40° to 185°F).

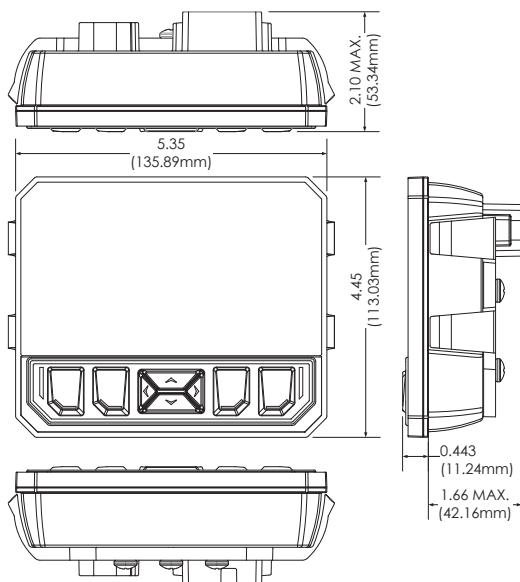
## PROGRAMMING OPTIONS

Marlin Technologies offers two software programming options for M-Flex Displays. For customers looking for a full solution, our engineering team can develop custom display software to meet specific application requirements. For customers with the engineering resources for developing their own applications, M-Flex Displays use a TouchGFX template. TouchGFX is a user-friendly graphic C++ tool that creates embedded graphic user interfaces (GUIs) on STM32 microcontrollers.

## I/O OPTIONS

- (0) inputs, (0) outputs
- (4) inputs, (2) outputs
- (2) inputs, (4) outputs
- (2) inputs, (2) outputs  
(2) CAN ports

## DIMENSIONS



For a detailed specification visit  
[marlintech.com/m-flex](http://marlintech.com/m-flex)

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