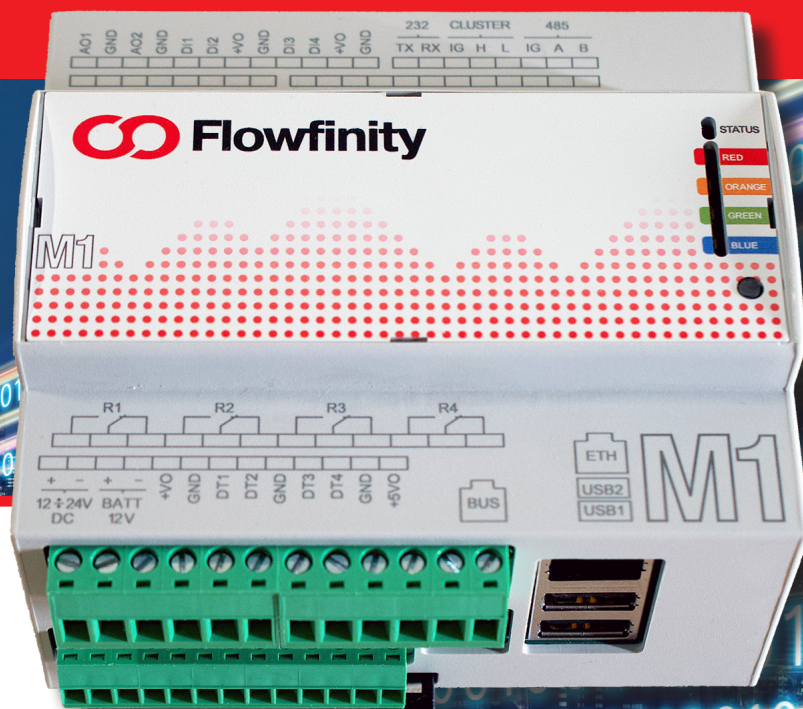


# Flowfinity M1 Controller Data Sheet



## In the Box

- ✓ Flowfinity M1 Controller
- ✓ USB key with firmware installer
- ✓ Insulated flathead screwdriver
- ✓ Pigtail connector for 12V / 24V barrel power supplies
- ✓ 2 temperature sensors with 2 meter cable for battery and ambient air temperature
- ✓ Fused battery cable for connecting to lead acid battery (not included)
- ✓ Spare fuses for battery cable

## M1 Controller Features

- Built-in compute module with redundant industrial grade flash storage
- Built-in micro-controller for real-time functions with ECC (error correction code) memory and dual flash banks
- Built-in security token for controller identity management
- Instrumentation-grade 24 bit ADC (analog-to-digital converter) with 4 voltage inputs, 4 current inputs and 2 RTD temperature sensor inputs
- RS232 and isolated RS485 serial ports for digital sensors and peripherals
- 4 built-in relays with NO / NC contacts
- 4 outputs for connecting external relays or indicator lights
- 4 discrete inputs for connecting dry contacts, mechanical buttons etc.
- 4 digital input/output terminals for connecting 5V peripherals
- 2 analog outputs configurable for voltage or current
- Power input terminal accepting 10V - 50V DC
- Battery terminals for connecting lead acid battery (not included)
- Built-in UPS (uninterruptible power supply) feature for charging lead acid battery and sustaining controller operation during power loss
- Built-in 12V / 24V regulated power supply for sensors and peripherals
- 5V power supply for powering peripherals
- Ethernet port for network connectivity and 2 USB ports
- BUS port for connecting external IO modules
- Cluster bus for clustering multiple controllers
- Built-in battery-backed clock
- Plastic case with DIN rail mount or wall hangers
- Front panel with push button, status light and 4 configurable color-coded lights

## Capabilities

Designed and manufactured in Italy with rich input and output capabilities, the Flowfinity M1 can be deployed for monitoring and supervisory applications plus a wide range of control and automation tasks.

With the Flowfinity M1, you can connect a variety of devices to your workflows, including:

- Both analog and digital sensors
- Switches, buttons, pedals, and other user input devices
- Tower lights and other indication lights
- Relays and contactors for controlling various devices
- Controlled fans, pumps, heaters, etc.

A fleet of Flowfinity M1 controllers can be managed centrally from the Flowfinity Actions console. Secure M1 firmware upgrades are distributed by Flowfinity and deployed remotely. Rich telemetry and diagnostics are accessible continuously to the administrator.

## 3rd Party Components (Not Included)

- 12V / 24V power supply
- Yuasa NP7-12 battery
- Ethernet cable