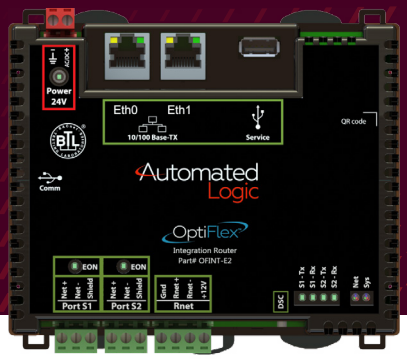
M-BUS Protocol

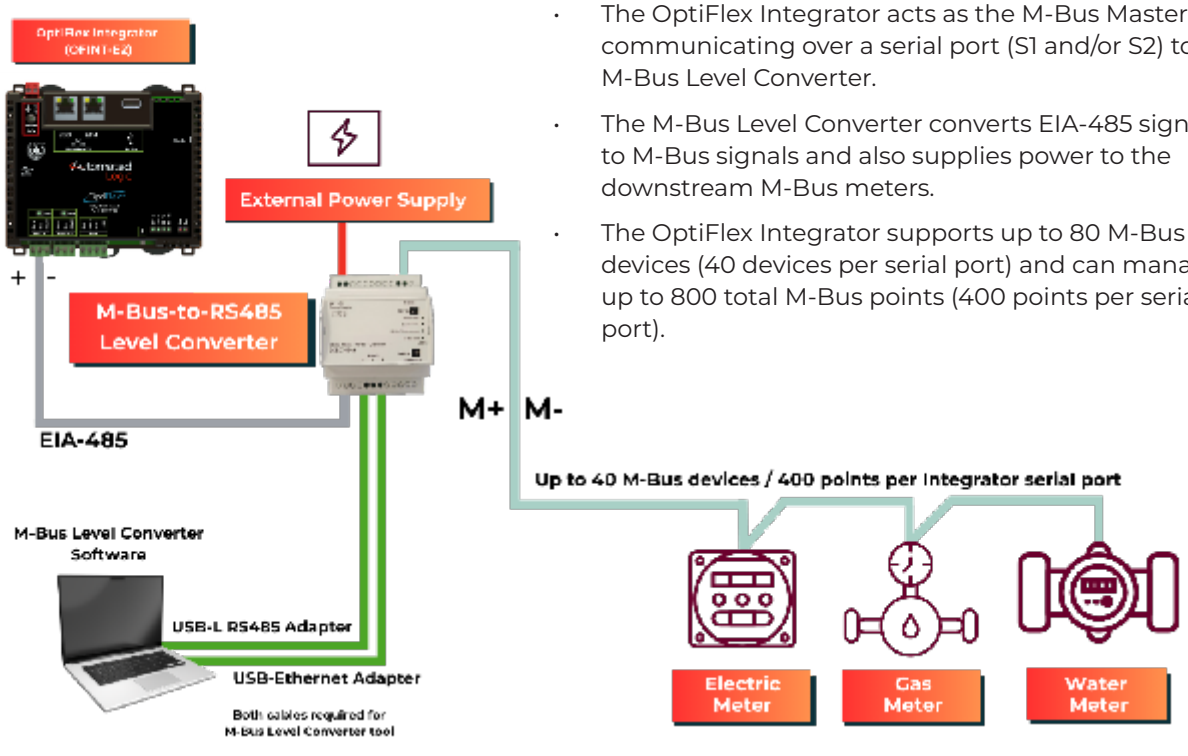
ON OPTIFLEX™ INTEGRATORS



Overview

The M-Bus protocol enables OptiFlex Integrators to read data from M-Bus devices, such as water, gas, and energy meters—and bring it into the WebCTRL® building automation system. The WebCTRL system unifies all building systems into one cohesive platform, delivering centralized insights, streamlined management, and comprehensive reporting.

M-BUS PROTOCOL



How it Works

- The OptiFlex Integrator acts as the M-Bus Master, communicating over a serial port (S1 and/or S2) to the M-Bus Level Converter.
- The M-Bus Level Converter converts EIA-485 signals to M-Bus signals and also supplies power to the downstream M-Bus meters.
- The OptiFlex Integrator supports up to 80 M-Bus devices (40 devices per serial port) and can manage up to 800 total M-Bus points (400 points per serial port).

WebCTRL®

The WebCTRL building automation system gives you the ability to understand your building operations and analyze the results. Integrate environmental, energy, security and safety systems into one powerful management tool that helps you reduce energy consumption, increase occupant comfort, and achieve sustainable building operations.

Specifications

OptiFlex Integrators - M-Bus Specifications	
Driver	drv_gen5_108-06-20206.driverx or later
Compatible Part Numbers	OFHI, OFHI-A, G5CE, OFINT-E2
Read/Write Capability	Read only
Supported M-Bus Equipment	Any device that supports the standard M-Bus protocol. NOTE: Variable Data Structure messages are supported. Fixed Data Structure messages are not supported.
Network Media Type	EIA-485 (2-wire) to M-Bus Level Converter
Max Devices Supported	80 devices per Integrator, 40 devices per serial port (with M-Bus-RS485 level converter(s))
Max Points Supported	800 points per Integrator, 400 points per serial port
M-Bus Baud Rate	Configurable (300 to 38,400 bps - default: 2,400). The baud rate must be configured to match the speed set in both the BAS driver (PPD) and on each M-Bus meter itself (using a meter-specific configuration tool).
Parity	None, Even, or Odd (default: Even)
Data Bits	8 or 9 (default: 8)
Stop Bits	1 or 2 (default: 1)
M-Bus Level Converters that have been verified to work correctly with the M-Bus PPD	ADFweb, Relay

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