



M-Bus Integration Solution

For the i-Vu® Building Automation System

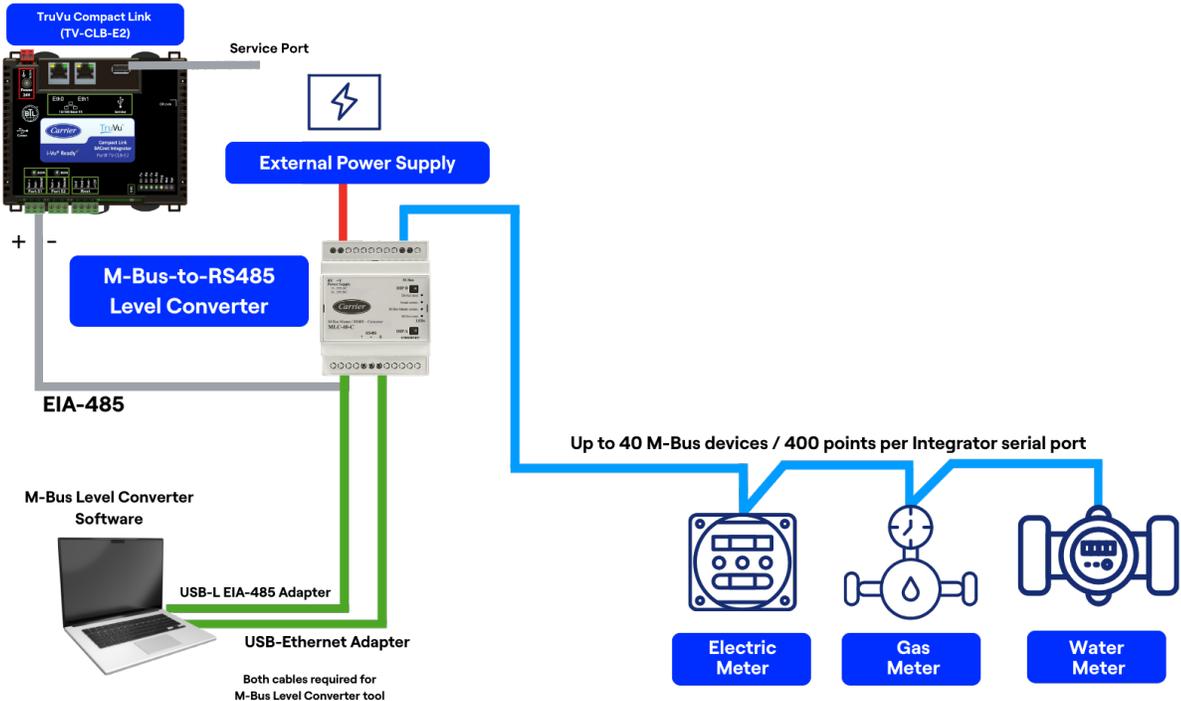


The M-Bus integration solution combines a Carrier Integrator and M-Bus Level Converter (part number MLC-40-C), to bring M-Bus utility meter data into the i-Vu building automation system. Tailored for international markets, it elevates building-wide visibility and simplifies compliance and sustainability reporting.



Key Features and Benefits

- Streamlined Installation:** The M-Bus Level Converter supports an unpolarized two-wire connection to M-Bus networks and features a standard 35mm DIN-rail mount for secure and efficient setup startup.
- High-Density Monitoring:** Supports up to 40 standard M-Bus devices and 400 points per converter, offering a scalable solution for managing diverse utility meters in small to large-scale commercial facilities.
- Streamlined M-Bus Discovery & Point Management:** The MLCT (M-Bus Level Converter Tool) automatically scans the M-Bus network to identify available points and generates a downloadable .csv file with precise point addresses for direct mapping into i-Vu.
- Facilitates Regulatory Alignment:** Supports compliance with international standards, such as the Energy Performance of Buildings Directive (EPBD), by delivering the measurement data required for tenant billing and sustainability reporting.



M-Bus Solution Specifications



Carrier Integrator

Compatible Integrators	Part numbers: TV-CLB-E2, XT-LB
Carrier Integrator Driver	drv_gen5_108-06-20206.driverx or later
Max Devices Supported	80 M-Bus devices per Integrator 40 M-Bus devices per serial port (with M-Bus-Level Converters) 800 total M-Bus points per Integrator
Read/Write	Read only
System Compatibility	i-Vu® 9.0 or later

M-Bus Level Converter (part number: MLC-40-C)

Power Supply	15-21V AC or 18-35V DC
Power Consumption	3.5 W/VA (No Load) to 5 W/VA (Full Load)
Max Devices Supported	Up to 40 M-Bus devices per Converter (1.5 mA each)
Baud Rate Supported	300 to 38,400 bps (configurable with MLCT software)
Isolation	Electrical isolation: Serial/M-Bus, Serial/Power, and M-Bus/Power
Communication Ports	(1) RS-485 port, (1) M-Bus port, (1) Ethernet port EIA-485 Port: RS-485 port for connection to Carrier Integrator (1,200m max) M-Bus Port: Unpolarized two-wire port; 1,000m max segment length Configuration Port: RJ45 Ethernet port for M-Bus Level Converter Tool (MLCT) - Windows Compatible
Environmental Operating Range	Operating Temp: -40°C to 70°C (-40°F to 158°F) Storage Temp: -40°C to 85°C (-40°F to 185°F) Humidity: 10% to 90% RH, non-condensing
Compliance	CE, WEEE, RoHS
Enclosure	Fire-retardant ABS plastic, UL-94-5VA, IP20, 99.44 mm (3.915 in) H (including the DIN clip) × 70.87 mm (2.790 in.) W x 61.85 mm (2.435 in.) D.
Mounting	Standard 35mm DIN rail mounting
Related Documentation	M-Bus Protocol cutsheet, M-Bus Integration Guide for startup, commissioning, and auto-discovery details, and TV-CLB-E2 or XT-LB Technical Instructions for hardware installation and setup.

M-Bus Level Converter Dimensions - mm (in)

