

EMU Gateway Module (24V) Installation Sheet

We reserve the right to alter, without giving prior notice, technical data, dimensions and weights described in this manual.
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EMU Gateway Module (24V)
 TVL 364 ISSUE 1

Precautions

The module must be mounted in the panel or suitable protective box. Observe normal precautions for handling electronic devices, avoid static electricity, dampness and extreme temperatures. Please read this instruction sheet fully before use.

EMU Gateway Module (24V)

The EMU Gateway Module is designed to be mounted within the controller panel. It is used to report controller events, status and settings to the CMS monitoring system. The unit has a built in 3-axis accelerometer, temperature and humidity sensor for environmental monitoring, so must be mounted securely to avoid false triggering of the accelerometer. I/O includes:- 1 x volt free relay output and 1 x 24V d.c. feature inputs. These can be configured via the CMS system. The module additionally monitors the 110V a.c / d.c. controller supply. Please consult main drawings for contract specific wiring and setup.

Specification

Supply Voltage	24V d.c.
Board Operating Current	120mA
Max Input Voltage (F11, BAT)	24V d.c. (triggers at 12V)
Max Input Voltage PS	110V a.c./d.c. (triggers at 80V)
Max Output Current Feature Outputs	500mA @ 24V d.c. (FO1)
Output Short Circuit Protection	Yes
Serial Connections	Ethernet, USB (device), RS232, RS485.
Dimensions (in DIN carrier)	105 x 90 x 60mm
Standards	EN81-20/50 (EN81-1/2)
Operating Temperature	0 °C to +40 °C
Humidity Operating Range	0 - 90% relative humidity (non-condensing)
IP Rating	IP2X

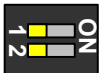
DIP Settings

SW1 Upper Board



DIP	Name	DIP 1 to 4 must be OFF for normal operation.
1	Reserved	
2	Spare	
3	Spare	
4	Test	

SW1 Lower Board



DIP	Name	DIPs 1 and 2 on for CAN termination. These should only be set on the last node in the network.
1	CAN Term	
2	CAN Term	

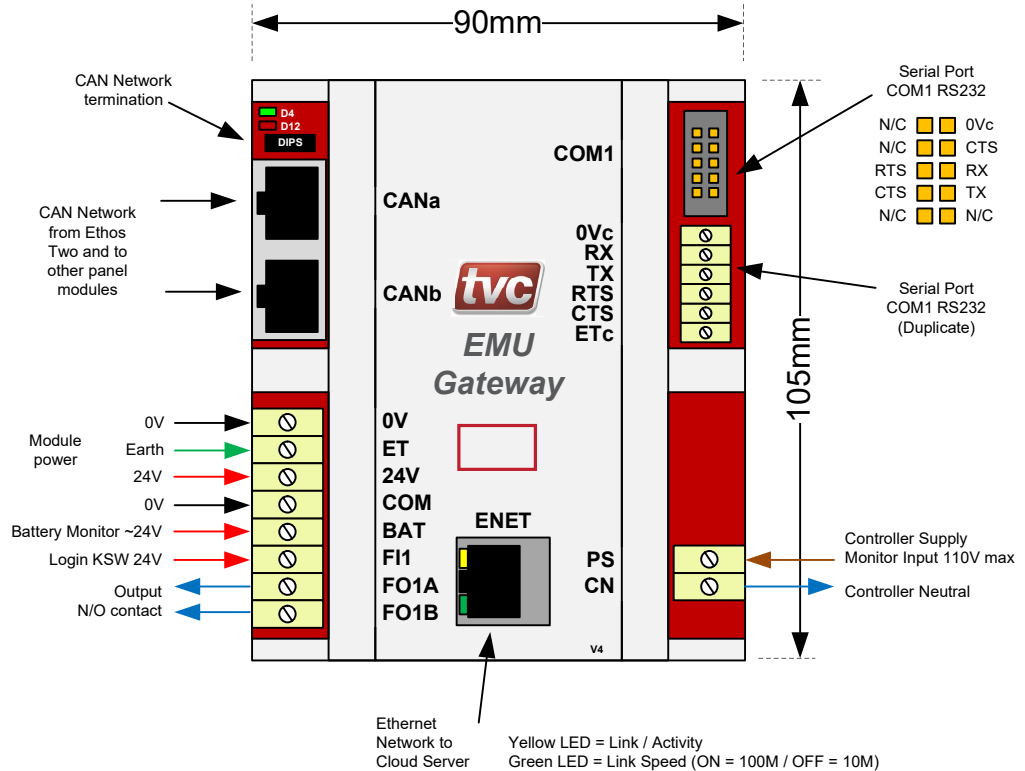
Jumper / Reset Settings

SW2	Reset Switch press to reset board.
SW3	Place Jumper in the 1-2 position for normal operation, 2-3 for programming.
SW4	Place Jumper in the 1-2 position for debugging, 2-3 for SD card access.

USB Device Connection J4

The EMU Gateway Module board has a USB micro device connector for programming and configuration, this is used for TVC factory setup only.

Typical Wiring and Dimensions of EMU Gateway Module (24V)



Loop and Fault LED's

The Green (D4 lower board) and Yellow (D1 upper board) LEDs will flash every 1 second to signify power to node and that the node is running.
 The Red LED (D12 lower board) will light continuously for 4 seconds when the node is first powered up. After this point the red LED signifies various fault codes. The LED will do a quick flash every 4 seconds if the node has a fault.

- 1 flash every 4 secs = Node not communicating with controller.
- 2 flashes every 4secs = Node is experiencing CAN / RS232 data bus faults.
- 3 flashes every 4 secs = Node has stopped transmitting due to CAN / RS232 bus faults.
- 4 flashes every 4 secs = Node has stopped transmitting or receiving from the CAN / RS232 data bus.
- 5 flashes every 4 secs = Node has stopped transmitting or receiving from the ethernet network.