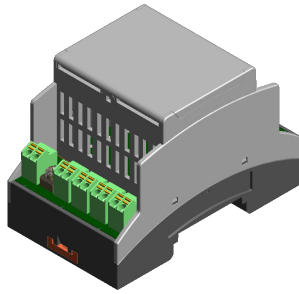


# V2I

4 channel Voltage to Current Transducer



## OVERVIEW

The V2I module has been designed to provide low-cost and high-quality translation of voltage measurements into current loop signals.

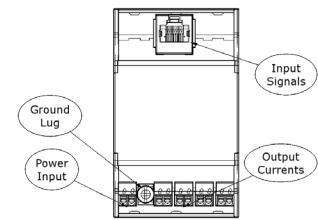
The V2I is a compact two-wire transmitter that converts a process level DC voltage input to a proportional 4-20mA control signal. Power is received a local DC supply when using a two wire connection.

## SPECIFICATION

Electrical	
Accuracy (percentage of reading)	±0.2%
Max total phase shift at 60Hz	< 0.05°
Max Input delay (120kHz versions)	< 2.8 μs
Integrated sensor noise (Referenced to input)	< 50 μA
Total power consumption	1.5W
Input Dynamic Range	±5V or ±10V
Mechanical	
Mounting Type	DIN Rail
Connectivity (Connector for power in and signal out to/from the sensor)	RJ45 Ethernet jack
Outer Dimensions	1.4" x 1.4" x 4.5"
Weight	198 g (7.0 oz)
Performance	
Input-Output non-linearity	< 70 ppm
Output current	4-20mA
Gain temperature drift	±50 ppm/°C
Common mode rejection at 60Hz	105 dB
Bandwidth	500kHz
Power Supply Voltage	5V, 9V, 15V or 24V
Output type	Current loop
Differential Input impedance	> 10 MΩ
Common mode impedance	> 2 GΩ    4pF
Maximum Output Load	500Ω
Environmental	
Operating temperature	- 25 to 70 °C
Storage temperature	- 40 to 80 °C

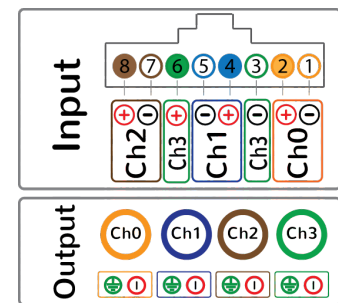
## HARDWARE DESCRIPTION

The voltage input connector is located at the top of the module in the figure below. A connector that servers to power the unit, ground and output the sensor signal lay along the bottom.



V2I connectivity

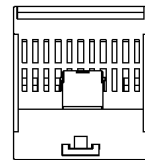
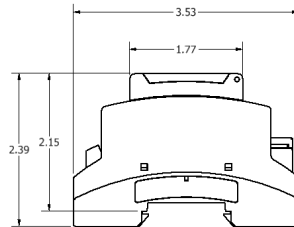
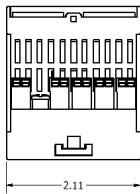
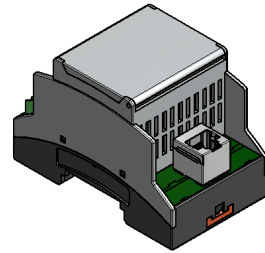
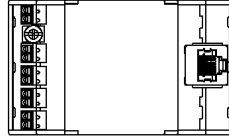
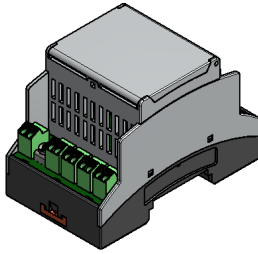
The V2I module is designed to mount on standard NS-35 or NS-32 DIN rails with minimal preparation, providing users ease of use and flexibility.



Wiring diagram

Signals are connected into the V2I via the RJ-45 and routed as the wiring diagram above.

# MERCHICAL DIMENSIONS



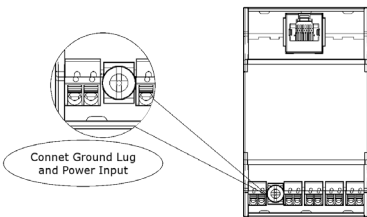
# HARDWARE CONFIGURATION

**A.** Connect external power source to power the unit. For proper functioning the power supply should provide a voltage as specified with at least 0.2A of continuous current and 0.4A surge during module start-up.

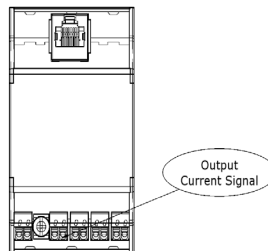
**B.** Securely connect the output terminals, and the other end to the inputs of your data acquisition unit

**C.** Securely connect input signal into RJ-45 connector

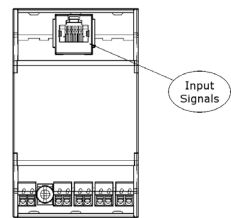
**A**



**B**



**C**



## Standards and Certifications

- CE



**⚠ DANGER**

THIS SENSOR IS NOT A SAFETY DEVICE AND IS NOT INTENDED TO BE USED AS A SAFETY DEVICE. This sensor is designed only to detect and read certain data in an electronic manner and perform no use apart from that, specifically no safety-related use. This sensor product does not include self-checking redundant circuitry, and the failure of this sensor product could cause either an energized or de-energized output condition, which could result in death, serious bodily injury, or property damage.