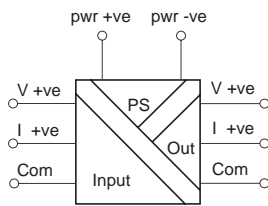


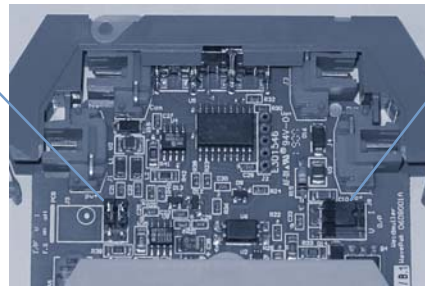
eLINE API Operating Instructions



Current Input

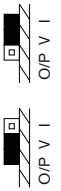
Voltage Input

Loop Powered
(2-wire) Input



Current Output

Voltage Output



Operation

General

The eLINE API is a DIN rail mounted, signal Isolator/Converter for Industrial Current/Voltage signals. It can be used with 4-20mA loop powered input devices using the Field Power Supply provided.

Current Test Points

To monitor current signals, connect a multimeter (set to a suitable milliamp range) across pins 2 (+) and 4 (-) for the inputs or 8 (-) and 6 (+) for outputs.

Cleaning

The case can be wiped with a damp cloth. De-energise the unit before cleaning.

Installation

General

These units must only be installed by qualified staff in accordance with the information given in this manual and all relevant national electrical wiring and safety rules must be followed.

Locate the instrument in an area that is free from dust, moisture and corrosive gases. Do not cover the ventilation holes at the side of the case.

Connections

For effective protection from electromagnetic noise, all signal cables must be shielded, or located on conductive trays or in conduits.

Strip wires to 7mm from the ends. Use a suitable ferrule for multi-stranded wires (do not solder).

Terminal	Signal		
1	Supply +	Power Supply	
7	Supply -		
4	Voltage Input +	Voltage Input	Input Type Jumper to 'Volts' Field Supply Jumper to 'Off'
3	Voltage Input -		
2	Current Input +	Current Input	Input Type Jumper to 'Current' Field Supply Jumper to 'Off'
3	Current Input -		
3	Device +	Loop Powered Transmitter Input	Input Type Jumper to 'Current' Field Supply Jumper to 'On'
2	Device -		
6	Voltage Output +	Voltage Outputs	Output Type jumper to 'Volts'
5	Voltage Output -		
8	Current Output +	Current Outputs	Output Type jumper to 'Current'
5	Current Output -		

Power Supply Requirements

Power Supply Ratings are as follows:

Voltage Range	Nominal Voltage	Power
12 - 60 Vdc	24 Vdc	3 W (at 24 V dc)

Field power supply

The eLINE API can power a loop powered transmitter input using the inbuilt 24Vdc field power supply. A jumper setting brings the power to the input terminals.

Environmental conditions

Relative humidity: 0-90% (non-condensing)
Ambient temperature: 0-60°C

Setup

General

Inputs to the unit are analogue current or voltage type. They are rated for measuring category III signals with a voltage of 300Veff to earth.

The input and output type are jumper selectable and their ranges are set by the values used during calibration.

Calibration

General

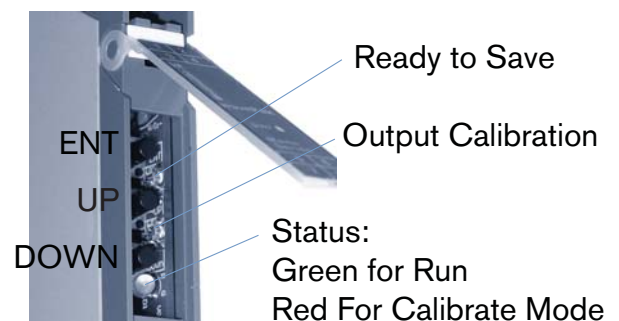
All instruments are calibrated before leaving the factory and should not need adjustment unless a change of range is required or until the next scheduled calibration.

Equipment requirements

- A suitable DC Power Supply
- A suitable DC mA or Voltage source
- An accurate digital multimeter (accurate to 0.05mV and $\pm 1\mu A$)

Procedure

1. Remove the instrument from the case and confirm that the jumpers are in the correct positions for the input and output type required.
2. Connect up the instrument.
3. Press the UP and DOWN buttons together. The Status LED will turn Red to indicate that the unit is in calibration mode.
4. Set the input source to the minimum value required, e.g., 4mA for 4-20mA inputs.
5. Adjust the output value using the up and down keys until the multimeter shows the output value required at minimum input, e.g., 4mA for a 4-20mA output.
6. When you are satisfied with the output, press the ENT button. The 'Output Calibration' LED will switch on to indicate that you are calibrating the maximum input and corresponding output values.
7. Set the input source to the maximum value required, e.g., 20mA for a 4-20mA signal.
8. Adjust the output using the up and down keys until the output is at the value required at maximum input, e.g., 20mA for a 4-20mA output.
9. If you are happy with the results, press ENT twice. The 'Ready to save' LED will switch on then turn off. After two seconds the instrument will return to normal operation (with the Status LED set to green). Otherwise press the ENT key and then the Up or Down key to discard the calibration values.



Find more information online at www.burkert.com.au or contact our sales support team on 1300 888 868.