

4 - to - 20 Milliamp Output Board

Get Continuous Analog Signals for Two Selected Items

*Enables 4-to-20 milliamp signal retrieval on any
Mercury electronic instrument*



*New Mercury 4-to-20 milliamp
output board.*

Mercury Instruments offers its new 4-to-20 milliamp output board to address customers' need for generating continuous analog signals on a variety of gas flow parameters. The board has two isolated current loops and provides signals proportional to the value of two selected parameters. The board readily interfaces with Mercury Instruments' ECAT, Mini, Mini-AT and ER products.

Converting an expansive array of readouts

Parameters commonly requested to be represented as 4-to-20 milliamp signals include the following:

- Average flow rate
- Instantaneous flow rate
- Dial rate
- Gas pressure
- Gas temperature
- Case temperature
- Battery voltage
- Incremental corrected volume



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Programmable To Meet Your Field Data Needs

Operation

You can easily program the parameters you want into on-board memory of the 4-to-20 milliamp board. Our simple-to-use configuration software allows you to select the following parameters for both output channels:

- Instrument type – ECAT, Mini, Mini-AT or ER
- Instrument access code – default = 33333
- Baud rate for serial connection – default = 9600
- Instrument item – for example, 208, 209, 008, 026, 031
- 4 milliamp and 20 milliamp scaling values
- Serial port time delay – default = 120 seconds; max = 255 seconds

Through the internal RS-232 serial port, the 4-to-20 milliamp board interrogates the instrument, reads the value for both selected items, then scales the value for the 4-to-20 outputs. The system updates the interrogation – and outputs – at each time interval.

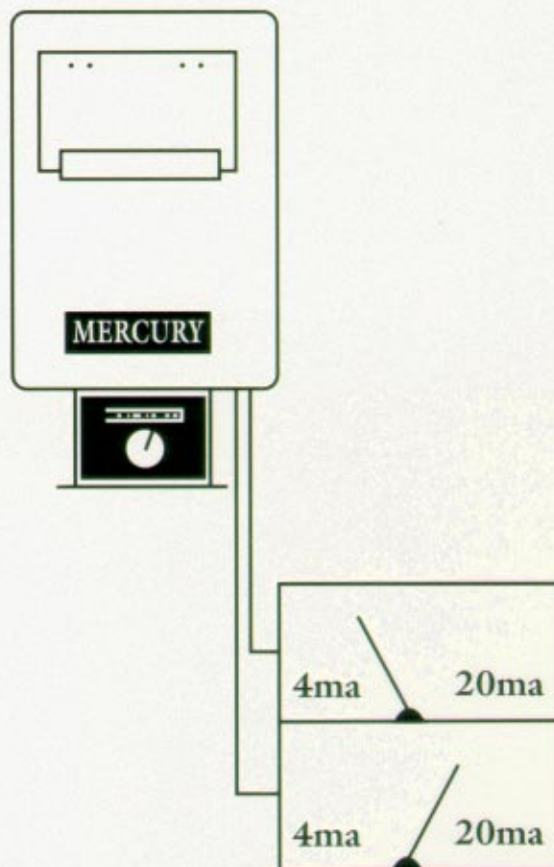
Power Requirements

Successful 4-to-20 board operation depends on the following power requirements:

- 4-to-20 board power 24 VDC at 50 milliamps
- Loop power Each loop is powered by 24 VDC from the end-point device
- Mercury device The device must be externally powered due to the high number of serial interrogations

Specifications

- Environment Designed for Class 1, Division 2
- Size 2-1/2" x 3"
- Operating temperature -40 F to 150 F (-40 C to 65.5 C)



New output board provides continuous signals proportional to the value of two selected items.



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Quality precision instruments for the natural gas industry