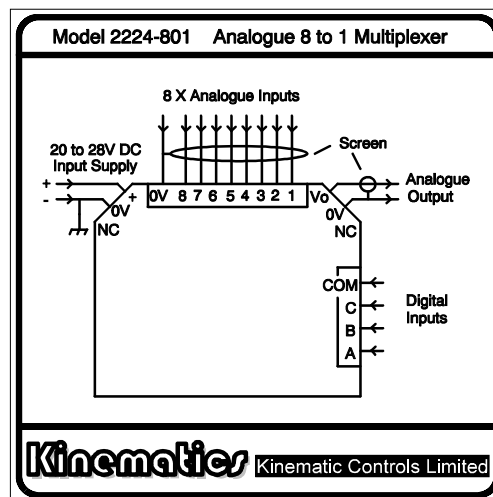


Model 2224-801 Analogue 8 to 1 Electronic Multiplexer

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The model 2224-801 is an Electronic (No Relays) Analogue Multiplexer which accepts up to 8 Analogue input signals which can be selected one at a time to a common output. Selection of an Analogue input is by three digital control lines. The analogue input signals can be between 0 to 10V DC or 0 to 20mA



Specifications

Power Supply:

Input voltage 20 to 28VDC

Max Supply current 12mA

Input power (approx 0.34Watts max)

NB. The Power supply 0V line is internally connected to the analogue input and output 0V

Analogue input ranges:

0 to 10V max.

or 0 to 20mA max.

Analogue output range:

The analogue output is a buffered version of the input voltage. When the input signal is a current between 0 to 20mA the internal switch SW1 must be on for the corresponding input channel that has the current signal connected to it. This causes the input current to flow through a 250 ohm resistor which will develop a voltage between 0 to 5V DC. For example a 4 to 20mA signal will develop a 1 to 5V DC output.

Digital control inputs:

The digital control inputs operate with a DC input voltage between 10 to 28V DC. The polarity of these signals can be + or – and they are isolated from the analogue signal circuit.

Digital Input current: 2.5mA @ 10V to 7.8mA @ 28V per input

The following table shows the logic states required to select each input channel

Analogue Input	Input C	Input B	Input A
1	OFF	OFF	OFF
2	OFF	OFF	ON
3	OFF	ON	OFF
4	OFF	ON	ON
5	ON	OFF	OFF
6	ON	OFF	ON
7	ON	ON	OFF
8	ON	ON	ON

Wiring Diagram:

