



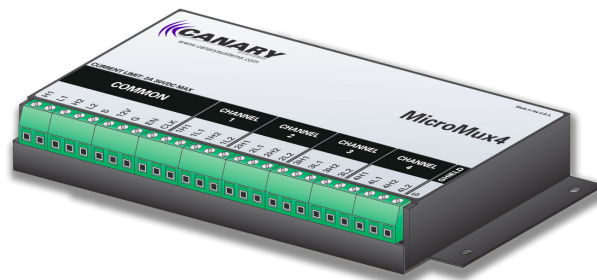


MicroMux4

MICRO MULTIPLEXER,
MACRO PERFORMANCE

Key Features

- 
COST-EFFECTIVE
 Channel expansion with 2-wire (8-channel) or 4-wire (4-channel) switching
- 
LIGHTNING PROTECTION
 Transient protection on power and control inputs
- 
COMPATIBLE
 Compatible with numerous control modules and a wide range of instruments
- 
EFFICIENT
 Very low operating and quiescent power



The **MicroMux4** is designed to expand the number of instruments that can be read by a compatible Automatic Data Acquisition System (ADAS). It supports two switching modes, 4-channel by 4-wire switching, or 8-channel by 2-wire switching. An internal switch configures the switching mode.

The use of low contact resistance relays means almost universal instrument support, a high degree of lightning protection on the control lines, and virtually infinite channel isolation. The MicroMux4 is compatible with a **wide range of instruments**, including vibrating wire, resistance strain gage, thermocouples, linear potentiometers, and 4-20 mA, among others.

Two control inputs activate the **MicroMux4** and then advance through the channels. Logic levels for either the enable or clocking input can utilize 5 V to 12 V logic input, with a maximum input of 16 V. The control inputs are compatible with a wide variety of control modules including those manufactured by Campbell Scientific™, Sutron™ and Datalogger®.

Transient protection in the form of plasma surge arrestors on the control inputs provides high reliability from electrical transients, whether ESD or

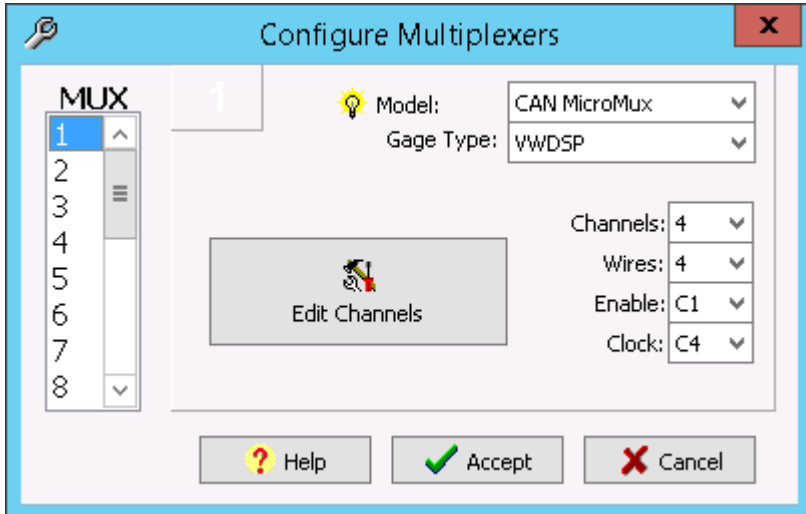


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lightning. The power inputs are also equipped with transient protection and reverse-polarity protection.

All components, such as terminal blocks, relays, and flash microcontroller, have been selected for ultra-high reliability and function, helping ensure years of reliable and trouble-free operation in demanding environments that may include high heat, humidity, and/or dust.



The **MicroMux4** is covered by our standard Limited Warranty for a period of 2 years from the ship date. It may be packaged directly in the Automatic Data Acquisition System (ADAS) enclosure, or installed in a variety of standard enclosures. Contact Canary Systems for enclosure and cable entry options.

MicroMux4 configuration form as presented in Canary Systems' MultiLogger® software suite

Specifications - MicroMux4 Multiplexer

General

- **Power Requirements**
 - 9-16 VDC (unregulated)
- **Quiescent Current**
 - < 0.1 μ A (Mux Not Enabled)
- **Channel Activated Current (2-wire)**
 - 42 mA
- **Channel Activated Current (4-wire)**
 - 42 mA
- **Control Line Input Impedance**
 - <10 K Ω
- **Control Line Input Levels**
 - 5 V thru 12 V (16 V max)

Relays

- **Contact Isolation Voltage**
 - 1500 V
- **Relay Contact Type**
 - Gold-clad silver alloy
- **Relay on Resistance**
 - 50 m Ω
- **Relay Coil Resistance**
 - 1,028 Ω
- **Relay Operate Time**
 - ~2 ms
- **Relay Release Time**
 - ~1 ms
- **Relay Max Switching Voltage**
 - 125 VAC, 110 VDC
- **Relay Max Switching Current**
 - 2 A
- **Relay Mechanical Life**
 - Minimum 108 Cycles

Physical

- **Dimensions (L×W×H)**
 - 165 × 85 × 25 mm
- **Operating Temp**
 - -40 to +85 °C (-40 to +185 °F)

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