



MULTIPLEXER is mainly used to increase the number of input sensors for datalogger series such as Campbell Scientific CR10X, CR7 and others. The MULTIPLEXER is located between datalogger and sensors. By using the relay switch features, it sequentially scans and processes each incoming signal of sensors and transmits the signal to datalogger, which is same as other relay-switched multiplexers of worldwide makers'.

According to different type of sensors (including single-ended or differential with or without excitation voltage), each MULTIPLEXER can multiply the maximum sensor numbers as follow:

- Up to 16 Slope Indicator's or other vibrating wire sensors through one vibrating wire interface and 32 Slope Indicator's or other vibrating wire sensors through two vibrating wire interfaces.
- Up to 32 single-ended or differential sensors which do not require excitation voltage including thermocouples, soil heat flux flow transducers.
- Up to 48 single-ended sensors which require excitation voltage including some half bridge sensors.
- Up to 16 CEP loadcells which require excitation voltage including full bridge.
- Up to 16 single-ended or differential sensors which require excitation voltage including full bridge and half bridge sensors.

PHYSICAL DESCRIPTION

The MULTIPLEXER is housed in a 230mm x 130mm x 56mm anodized aluminum case. The aluminum case is intended to reduce temperature gradients across the MULTIPLEXER's terminal strips. This is typically important when thermocouples are being wired and multiplexed to MULTIPLEXER.

SPECIFICATIONS

- POWER: 12VDC
- Power Consumption: Quiescent: 5.8mA. Active: 30mA
- Reset: a continuous signal of 3.5 Vdc < voltage < 12 Vdc holds MULTIPLEXER in an active status. A signal voltage below 0.9 Vdc deactivates MULTIPLEXER.
- Clock: a 5 Vdc pulse signal can make MULTIPLEXER work.
- Operation Temperature: -40 to +65 degree C
- Operation Humidity: 0 -95%, non-condensing.
- Dimension: 230mm (L), 130mm (W), 56mm (D).
- Weight: (approximately) 790g
- Expendability: 6 - 8 MULTIPLEXERS

Since this is a technical instrument, measurement should be taken, recorded and interpreted by qualified personnel. CEP is not responsible for errors or omissions of such personnel.

CEP SERVICES PTE LTD

30B Hillview Terrace Singapore 669248

Tel: 65-67601566 Fax: 65-67605186 Email: sales@cep.com.sg [Http://www.cep.com.sg](http://www.cep.com.sg)