STI Vibration Monitoring Inc.

Vibration Monitoring and Machine Protection Systems
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Condition Monitoring Custom Products

CMCP797-2
Dual Channel Active Buffer Module

Features:

- Two Input / 6 Outputs
- Accepts Proximity Probes, Accelerometers and Velocity Sensors
- BNC Buffered Output Per Sensor Input
- Two Hardwired Buffered Outputs Per Sensor Input
- +/- 24VDC Powered
- Onboard Constant Current Power for IEPE Sensors
- Power On LED
- Din Rail Mountable
- DC Coupled (BOV or Gap Voltage Passed to Output)
- Accepts TBUS Connections

Typical Applications
Online Monitoring System Signal Splitting, Sensor Powering, BNC Buffered Signal Access

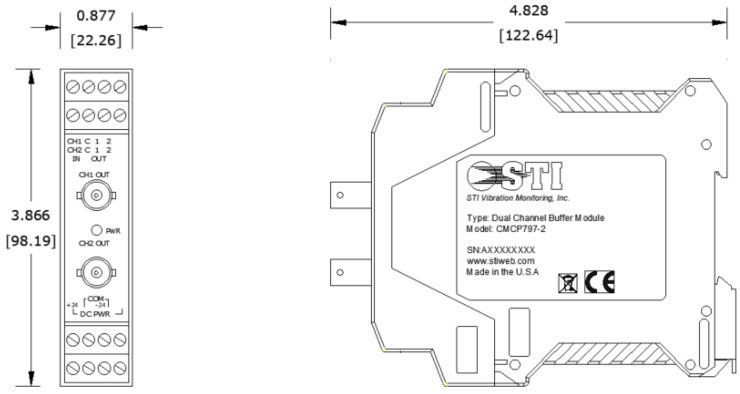
Specifications:

Accuracy:	0.1% Basic AC and DC Signals
Input:	Proximity Probes, IEPE Accelerometers and Velocity Sensors
Output:	Three (3) Active Buffered Outputs Per Channel 2 Hardwired Buffered Outputs Per Input 1 BNC Buffered Output Per Input
Power Input:	+/-24VDC
Power Consumption:	35mA Max
Frequency Range:	0Hz to 150kHz @ -3dB
Input Impedance:	100k Ohms
Constant Current Diode:	4mA
Output Impedance:	<10Ohms
Dimensions:	3.86”x0.87”x4.82” (98x22x122mm)

Environmental

Operating Temperature:	-20°C to +80° C (-4° F to +176° F).
Storage Temperature:	-55°C to +125° C (-67° F to +257° F).
Relative Humidity:	0 - 95% Non-Condensing.

Dimensions:



Ordering Information:
CMCP797-2 Dual Channel Buffer Module

Instructions
The CMCP797-2 accepts up to two inputs from either +24VDC or -24VDC powered sensors. The internal DIP switches must be placed in the proper position prior to being using.

Switch #1 (S1)
The Constant Current Power Switch (S1), when in the ON position, will provide constant current power to both sensor inputs. Constant Current Power is used when the CMCP797-2 must power an IEPE accelerometer or velocity. To turn on Constant Current Power place the switch in the ON position (to the left). When sensor power is not required, for example when the signal input comes from a buffered output on another system or when the sensor is externally powered, S2 must be placed in the Off position (to the right).

Switch #2 (S2)
The Signal Input Switch (S2) selects the sensor input signal type. For +V output sensors, such as an IEPE accelerometer or velocity sensor, the switch will be placed in the + position (to the right). For eddy current probes (or other -V output sensor) the switch will be placed in the – position (to the left).

Buffered Outputs
The CMCP797-2 provides three (3) buffered outputs per input. For each channel, two buffered outputs are located on the screw terminal blocks and one buffered output on the front panel BNC connector.