



MC1 Series Laboratory Signal Conditioning System Overview



- Signal Conditioning for Laboratory Sensors
- Accepts Strain Gages, VR Sensors, LVDTs
- Standard +/-10 Vdc Analog Outputs
- 3, 10 or 20 Slot Module Cases
- Rack Mountable

Description

The Validyne MC1 Modular Signal Conditioning System consists of a series of module cases and a family of plug-in signal conditioning modules that comprise an economical and flexible system that can be customized to meet your instrumentation needs. The module cases contain the system power supply, backplane, input/output wiring interface, and mechanical housing necessary to support the MC1 signal conditioning modules.

There are two basic types of MC1 module cases: three-channel types for bench-top use and rack-mounted types that can accommodate either 10 or 20 of the MC1 signal conditioning modules.

The MC1 modules can plug into any of the module cases. There are a wide variety of modules for any type of low level sensor. The output of the MC1 system is a standard +/-10 Vdc for each module. The modules provide all required sensor excitation, amplification, filtering and calibration adjustments.

The MC1 system features large finger-friendly dials and switches for fast adjustment to changing laboratory conditions. The MC1 modules can be mixed or matched in any combination within the module case for re-configuration to any sensor requirement.

System Types

Bench-Top

The MC1-3 and MC1-333 are three-channel cases which will accept any mix or combination of modules. The MC1-333 is equipped with a 3.5 digit LED meter and a selector switch so that the output of any of the three channels can be displayed. Both module cases have six-pin PT02A or WK4 four-pin style input connector options available. The output connectors are 3-pin XLR types.

Rack-Mounted

The MC1-10 and MC1-20 module cases hold ten and twenty modules respectively in a 19" rack-mount case. They are available with 110 VAC or 220 VAC power options and have standard 3 KHz oscillators. Option carrier oscillator frequencies of 5, 10 or 20 KHz are available.

The input/output wiring for the rack-mounted cases may be specified as terminal strips or connectors. For the connector option, both the 4-pin WK4 and six-pin PT02A are supported.

The standard output of the MC1 system allows you to quickly connect, calibrate and record sensor inputs to your strip chart or data acquisition system.