

C-DIN-M/F Gain Cables

Technical Note



C-DIN-M/F (x10, x100)

Overview

When transducers, electrodes, and isolation amplifiers are used with iWorx data acquisition systems or amplifiers, the appropriate gain required for the proper operation of the transducer or probe is programmed by the transducer or probe itself. The amplification of the DIN8 transducer input channels is set by the value of a resistor located inside the DIN8 connector of the transducer or probe. When a transducer or probe is plugged into a DIN8 transducer input of the recorder or amplifier, the resistor completes a circuit that sets the gain of the input channel to a level that is proportional to the value of the resistor.

During some experiments, the output of a transducer or a probe may need to be amplified above or below the level programmed by the resistor of the transducer. The gain of DIN8 input channels can be changed, without modification to the transducer or probe, through the use of C-DIN-M/F Gain Cables. This is possible because the resistor in a C-DIN-M/F Gain Cable replaces the resistor in the DIN8 connector of the transducer when the C-DIN-M/F Gain Cable is placed between the DIN8 connector of the transducer and the DIN8 input of the iWorx data acquisition system or amplifier.

How to Use the C-DIN-M/F Gain Cable

Equipment Setup

- 1) Select the C-DIN-M/F Gain Cable with the amplification needed (x10 or x100) for the experiment being performed.



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- 2) Plug the DIN8 connector of the C-DIN-M/F Gain Cable into one of the DIN8 transducer inputs of an iWorx data acquisition unit or amplifier.
- 3) Plug the DIN8 connector of the transducer, headstage amplifier, electrode assembly, or isolation amplifier into the DIN8 connector of the C-DIN-M/F Gain Cable.

Technical Data and Specifications

| SPECIFICATIONS | |
|-----------------------|--|
| iWorx Gain Cables: | x10 (C-DIN-M/F-X10) x100 (C-DIN-M/F-X100) |
| Input Connector: | DIN8 jack |
| Output Connector: | DIN8 plug |



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