



The AESMART 2000 acoustic emission instrument is expandable from a single channel to 100 channels. Multiple channel operation is achieved by use of the MUX-MODULE shown above. The MUX-MODULES are all attached by a single twisted pair shielded cable, and each unit has its own unique address. Each MUX-MODULE can power both a data and trigger transducer containing integral preamplifiers.

The MUX-MODULE and integral preamplifier transducers are supplied with +15 volts DC on the signal cable from the AESMART 2000 or AESMART 302A. AE signals detected by the transducers are sent back to the main instrument via the same cable. Only the Module selected by the computer draws power from the cable and transmits AE data back to the main instrument.

The Model 600 pulser can be powered via the trigger transducer connector on the MUX-MODULE if remote calibration signals are required for a particular channel.

MUX-MODULE

SPECIFICATIONS:

PHYSICAL SIZE	31mm Dia. X 75mm long
WEIGHT	204 grams
MATERIAL	304 aluminum
POWER REQUIREMENTS	+15 Volts DC, 10ma current with trigger and data transducer attached
INPUTS	+15 volts DC via twisted pair cable, AE signals from Data and Trigger transducers, address selection by computer
OUTPUTS	AE signals from Data and Trigger transducers. +15 volts DC to power data and trigger transducers
CONNECTORS	Trigger and Data Transducers BNC. Power signal cable connectors Amphenol 31-2225 dual BNC
TEMPERATURE	-50 to + 50° C



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