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INSTRUCTIONS

AV-CTL MODELS

TEST LOADS / ADAPTERS

FOR USE WITH AV-CLZ CABLES

SERIAL NUMBER: _____

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Manual Reference: /fileserver2/officefiles/instructword/av-ctl/av-ctl,edition3.odt.
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INTRODUCTION

The AV-CTL test loads / adapters allows a user to connect a soldered load to the end of a user-supplied AV-CLZ-type cable, which is used with a variety of Avtech pulse generators.

The AV-CTL test load adapter consists of a female DB-37 connector to which a small circuit board (8 x 50 mm x 1/16") is soldered. Pins 1-19 of the connector are soldered to the top side of the board, and pins 20-37 are soldered to the bottom side.

The DB-37 connector will mate to the end of a user-suppled AV-CLZ-type cable. The user may solder a load between the two sides of the 8 x 50 mm circuit board, as desired.

The AV-CTLX is provided with no resistive load installed between pins 1-19 and 20-37.

Models AV-CTL1, AV-CTL2, AV-CTL3, and AV-CTL4 have a resistance installed between these two sets of pins.

The -ENC option provides an aluminum enclosure to surround the load devices, for safety purposes. This option is recommended when high voltages will be present on the load.

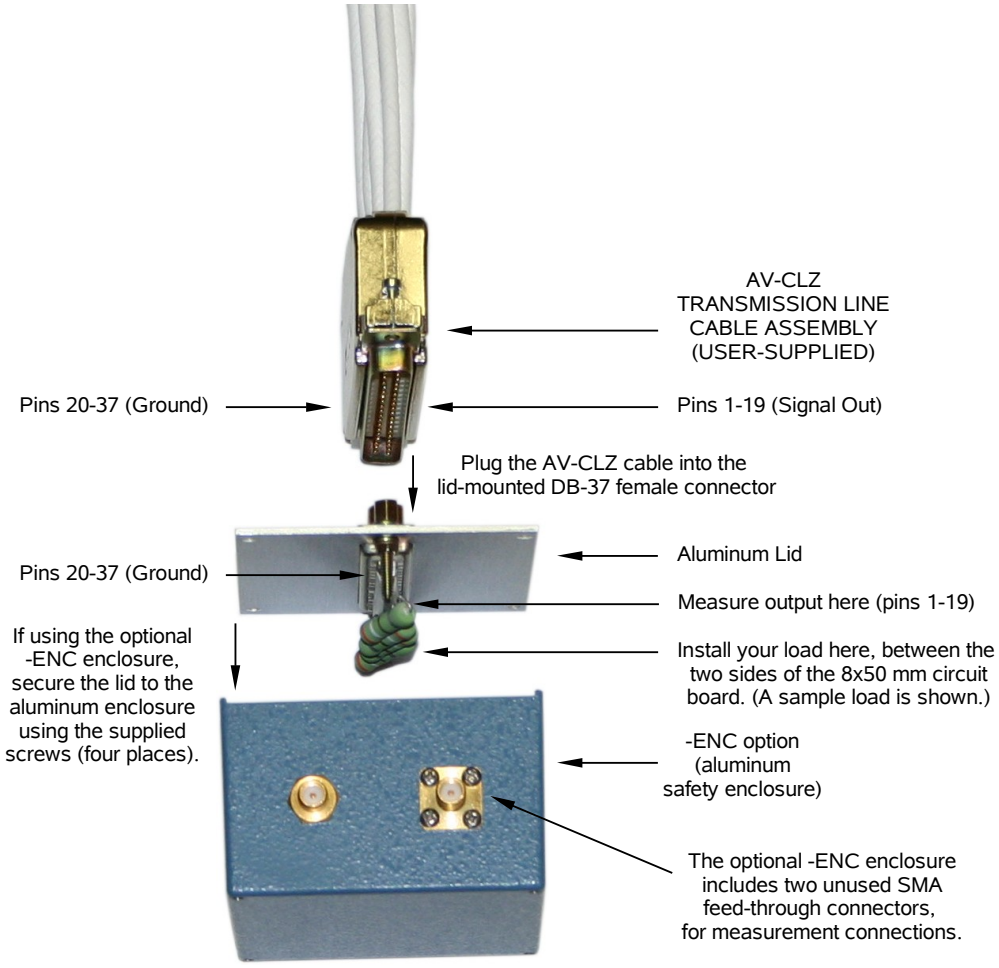
This adapter is intended for use in research, development, test and calibration laboratories by qualified personnel.

SPECIFICATIONS

Model:	AV-CTLX	AV-CTL1	AV-CTL2	AV-CTL3	AV-CTL4
Load resistance (R_L, ±10%):	Open circuit	1.0 Ω	1.8 Ω	2.7 Ω	3.6 Ω
Max. pulse current:	200 A	200 A	50 A	30A	25A
Max. average power/current:	75 A	5 Watts			
Resistor type:	N/A	Low-inductance ceramic composition resistors.			
Rise time:	< 5 ns				
Maximum voltage:	Standard (open construction): 55V. With -ENC option (enclosed): 110V.				
Connector:	DB-37 female. Pins 1-19 = signal, pins 20-37 = ground.				
Temp. range:	+5°C to +40°C				

BASIC USAGE

The basic mechanical connection scheme for the AV-CTLX is shown below:



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