

AVTECH ELECTROSYSTEMS LTD.

NANOSECOND WAVEFORM ELECTRONICS
ENGINEERING . MANUFACTURING

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(315) 472-5270

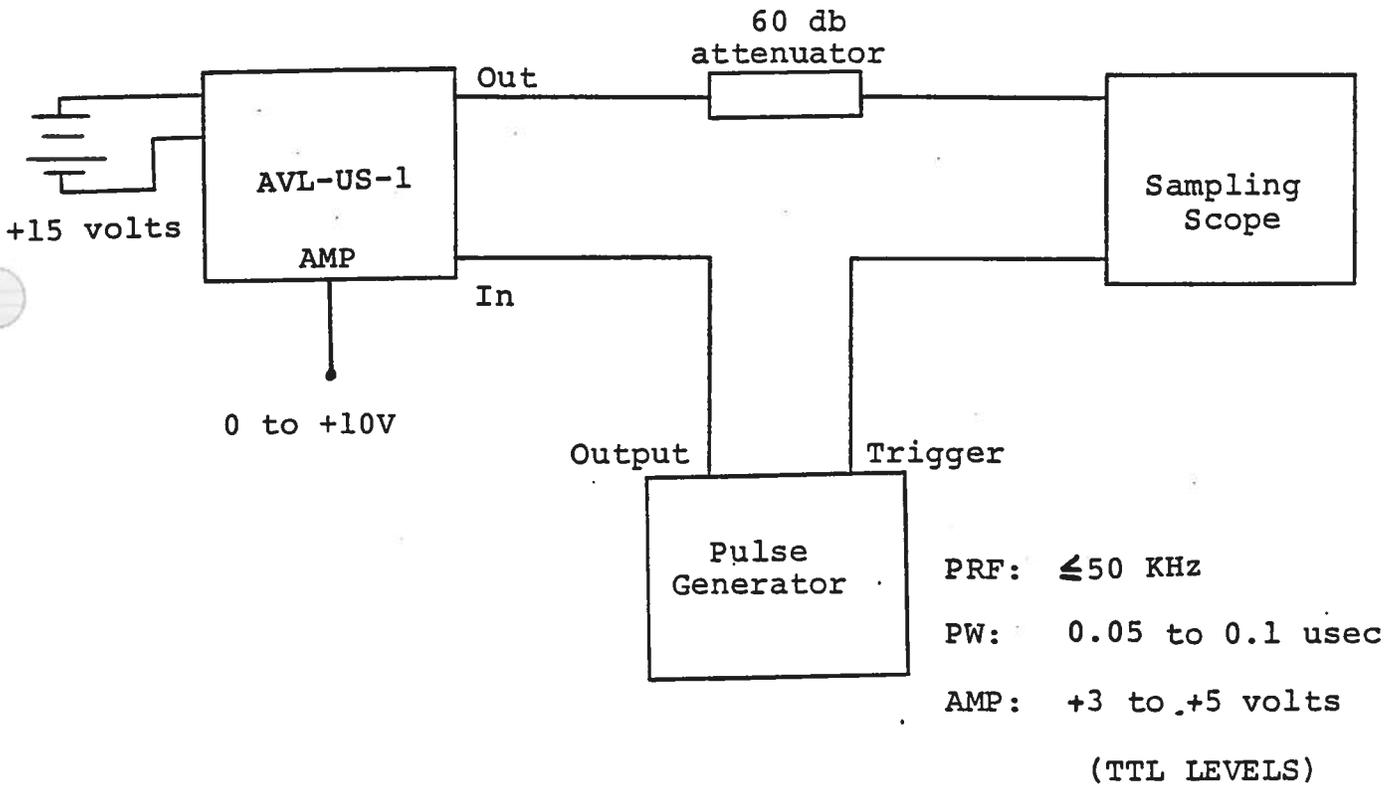
BOX 5120 STN. "F"
OTTAWA, ONTARIO
CANADA K2C 3H4
(613) 226-5772
TELEX 053.4591

INSTRUCTIONS

MODEL AVL-US-1 IMPULSE GENERATOR

S.N.:

MODEL AVL-US-1 PULSE GENERATOR TEST ARRANGEMENT



Notes:

- 1) The bandwidth capability of components and instruments used to display the impulse generator output signal (attenuators, cables, connectors, etc.) should exceed several gigahertz.
- 2) The use of 60 db attenuators will insure a peak input signal to the sampling scope of less than one volt.
- 3) In general, the pulse generator trigger delay control should be set in the 100 nsec range. Other settings should be as shown in the above diagram. The AVL pulse generator output is delayed with respect to the trigger input signal by about 50 nsec. (typically).
- 4) The pulse generator can withstand an infinite VSWR on the output port.
- 5) The output amplitude is controlled by 0 to +10 volts applied to the AMP solder terminal ($R_{IN} \gg 10K$).

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Ref. 4778

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Fax No: 3717 Our Fax No: 613-226-2802

To: Universidade de Sao Paulo, Your Ref No: _____
Instituto de Fisica,
Brasil Our Ref: _____

Attn: Dr. Marcos N. Martins Date: March 11, 1991

From: Avtech Electrosystems Ltd. Receivers
Fax No: 011 55 11 814-0503

Subject: Your fax March 11/91 No. pages
faxed: 1

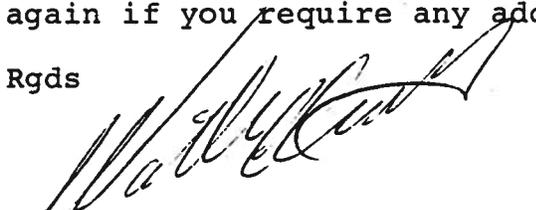
The specs for the two models are as follows:

- 1) Model designation: AVL-US1.
Output: 0 to +100 volts to 50 ohms.
PW: Fixed at 10 ns.
Rise time: ≤ 1.0 ns.
Fall time: ≤ 2 ns.
PRF: 0 to 20 KHz.
Prime power: +15 volts.
Trigger required: TTL 0.5 us.

- 2) Model designation: AVL-US1-EA-TP.
Output amplitude: 0 to +100 volts to 50 ohms. Controlled by
0 to +10 volts control voltage.
Output PW: Fixed at 10 ns with 1 ns TR and 2 ns TF.
Propagation delay: ≤ 50 ns. Constant within +100 ps over
full amplitude range.
Prime power: +15 volts 350 mA max.
IN, OUT connectors: SMA.
Chassis: Package Style A.
Trigger required: TTL 0.5 us.

Thank you for your interest in our products. Please contact me again if you require any additional information.

Rgds



Walter J. Chudobiak
Chief Engineer

WJC:pr