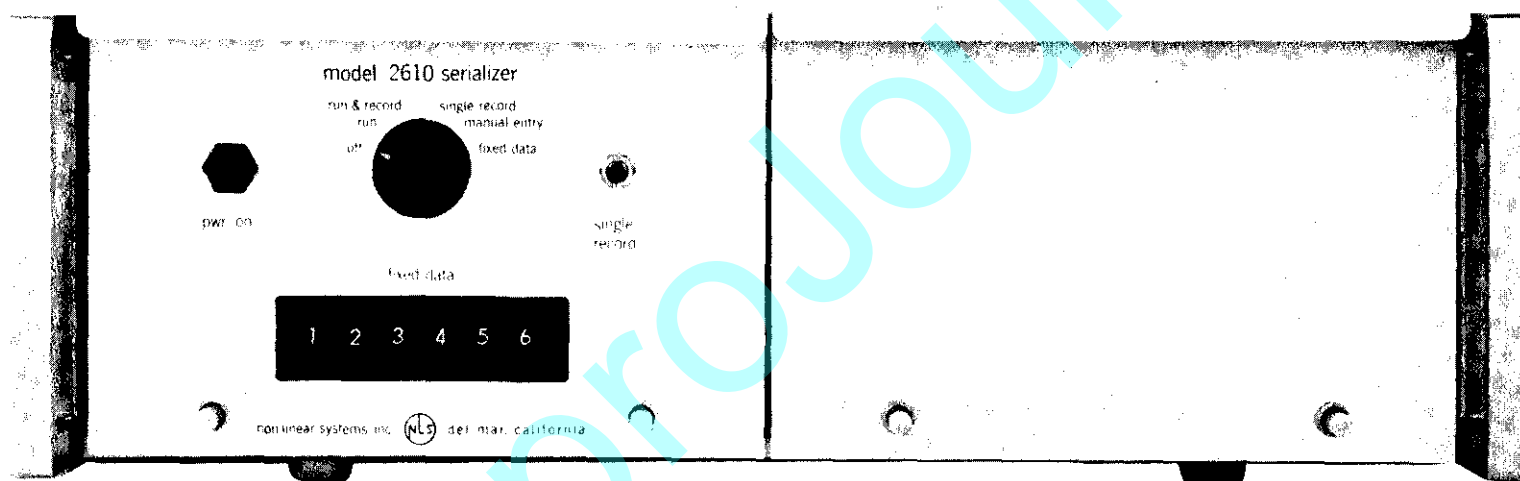




Originator of the Digital Voltmeter

non-linear systems, inc.

Del Mar, California, Phone: (714) 755-1134



One-half-Rack-Size Serial Converter

NLS MODEL 2610 SERIAL CONVERTER

This is a state-of-the-art parallel to serial converter. All logic functions are accomplished through the use of silicon integrated circuits. Output drive options for punch tape or magnetic tape are supplied by discrete silicon circuits.

A flexible interface system is incorporated to provide compatibility with a large variety of input and output devices. Simple plug-in printed circuit card substitution allows mating changeover from incremental magnetic tape to punch tape.

UNIQUE FEATURES

High Speed - Up to 1.2 KC character entry rate for magnetic tape operation. Higher speeds available on special order.

Floating Logic Inputs - All input logic circuits are floating to provide interface flexibility and simplicity of grounding.

Easy Format Changing - All internal programming and control logic brought through connectors for quick "in the field" format and code changing.

Split Format Capability - Variable format length is possible. Characters may be excluded by simple opening of input lines. Inputs of up to 32 individual BCD characters.

Storage - Input storage is standard with time sharing operation for highest possible speeds.

OPTIONS

Model 2610 standard options include:

Fixed Data Entry - Six digits of 0 to 9 thumbwheel switch data which may be entered manually by front panel control push button at beginning of format or automatically in any order at any point in format.

Manual Data Entry - For entry of alphanumeric data from external keyboard. Contact closures or compatible logic levels.

Floating Point - For entry of up to 7 floating decimal points.

OUTPUT DEVICES AND CODES

Standard Devices - Tally 420 Tape Perforator
Tally P120 Tape Perforator
Digi-Data Incremental Magnetic Tape
Recorders
Kennedy Incremental Magnetic Tape
Recorders

Other Devices - Available by special request.

Standard Codes - IBM/Friden 8 level
IBM 7 level
ASC II 8 level
Teletype 5 level
IBM Selectric

Other Codes - Available on request.

- SPECIFICATIONS -
(Basic Serializer)

Number of Characters - 16 BCD 0V = True
-4V = False

Additional External Inputs - Parallel BCD or ten line decimal.
Contact closures or compatible
voltage levels.

Command Inputs - 0V = False
-4V = True
Complementary inputs are available.

Speed - Up to 1.2 KC character entry rate.

OPERATING MODES

- RUN - Standby operation - machine on but not recording.
- RUN & RECORD - Accepts inputs from data sources and serialize command.
- SINGLE RECORD - Accepts inputs from data sources and serialize command from front panel push button switch.
- MANUAL ENTRY - Accepts coded information and serialize command from keyboard. A serialize complete command is fed back when information is fully recorded.
- FIXED DATA - Accepts 6 decades of decimal contact closures from front panel thumbwheels or remote fixed data switches and serializes them on command of front panel push button.

- LOGIC SIGNALS -

- SERIALIZE COMMAND - Starts serializing process.
- STORAGE COMPLETE - 100 microsecond pulse which tells that the serializer has stored the data and system may proceed.
- FIRST POINT - Split format command for adding additional characters at beginning of format.
- LAST POINT - Split format command for adding additional characters, Ending code, or IR gap at end of format.

DIMENSIONS

Basic Serial Converter - 1/2 rack, 8-7/8" wide,
19-1/2" deep, 5-1/4" high.

Auxiliary Power Supply - 1/2 rack, 8-7/8" wide,
for tape punches, etc. 19-1/2" deep, 5-1/4" high.
that are not self
powered

POWER - 110/220 VAC, $\pm$ 10%. 50 to 60 CPS, 25 watts.

WEIGHT - 10 lbs.