

September, 1968

TENNECOMP TP-1514 FLEXIBLE NUCLEAR ADC INTERFACE

Experimental problems in nuclear research are often poorly defined and become apparent only during the course of an experiment. It is difficult to anticipate all the modes that will be needed. Tennecomp has the answer in their FLEXIBLE interface.

This ADC interface is designed to give the researcher the flexibility he requires and may be used with the PDP-8, PDP-8/I or PDP-9 computer. ADC control signals are brought out to a CONTROL PATCH PANEL for instant "reconfiguration" of ADC operation.

- * Up to 7 NIM Modular ADC's may be accommodated, Northern Scientific 50 MHz Model NS-628 (8,192 channels maximum) is standard, Victoreen and Nuclear Data Models may be specified.
- * Any ADC may be replaced by a "FLOP BOX" which allows binary auxiliary or control information to be read-in along with ADC data.
- * An auxiliary CONTROL PANEL associated with each ADC provides test switches (for setting any bit to "0" or "1" for program check-out), a switch to select ADD 1 or LIST mode, a DATA PATCH plug, etc.
- * CONTROL LOGIC PATCH PANEL allows the control signals from the ADC's to be combined for different configurations.
- * Each ADC may operate in either the ADD 1 or LIST mode and may be operated independently or in coincidence with others.
- * ADD 1 gives the fastest count rates of up to 50,000 counts/sec (limited by detector electronics), and LIST mode gives the greatest versatility (typically limited to 5,000 to 10,000 events/sec by the analysis program).
- * Several independent 2 or 3 detector coincidence experiments may be accommodated simultaneously.
- * Up to 13 data bits and an "invalid data" bit may be stored in the LIST mode. (The PDP-8 is limited to 12 bits maximum.) Up to 8,192 cells may be addressed in the ADD 1 mode.
- * INSTALLATION: The TP-1514 is connected to the I/O bus and to the Data Break facility of the PDP-8 and PDP-8/I computer. It is connected to the Data Channel of the PDP-9 computer.
- * MOUNTING: Standard 19-inch relay rack.
- * POWER REQUIREMENTS: 115 ± 10 volts A.C., 60 Hz

+10 volts D.C. -15 volts D.C.