

UENCS - TCA

THREE CHANNEL ANALYSER

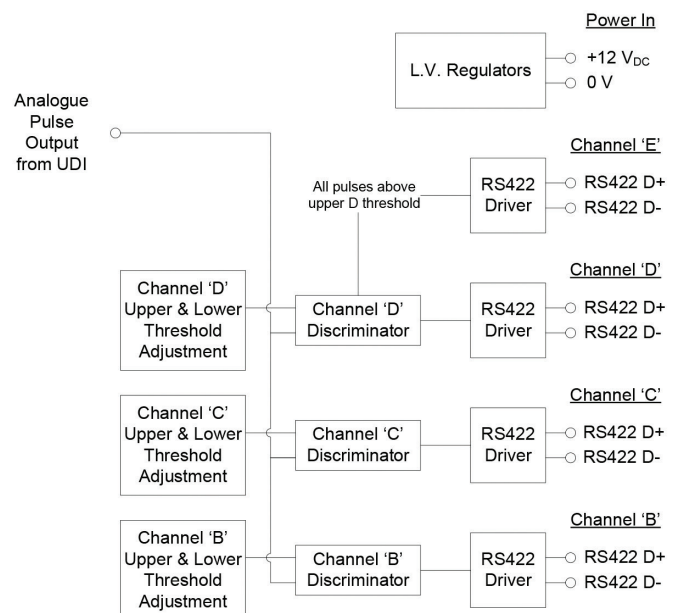
The Three Channel Analyser (TCA) has been designed to be used with the Universal Detector Interface (UDI). The combination of UDI/TCA increases the number of independent analyser windows from one to four. The TCA can accommodate many applications requiring Region of Interest (ROI) measurements that are proportional to energy, and when used with Ultra Electronics Nuclear Control Systems instrumentation can successfully compensate for or subtract unwanted radioisotope data.

The TCA is housed in exactly the same enclosure of the UDI. Six potentiometer adjustments are available to set the three independent channels. However, these are normally set at the factory and seldom require readjustment in the field.

Demonstration of how the TCA works with the UDI is shown in the block diagram (right).

Each energy ROI channel is converted to an RS422 pulse output and connected to Ultra's instrumentation up to 100m away, e.g. the CMS Gamma series.

The TCA also features a thermistor input to monitor temperature for UENCS CGADC instrumentation.



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