

FE-978-FV

Frequency to Voltage

9-Series

This instantaneous F-V converter accepts frequency inputs from electromagnetic or light activated sources, or from a low impedance output of other signal conditioning systems for virtually all pulse or frequency waveforms from 10mV to 30V RMS.

The frequency of the incoming signal is converted to an output voltage in the range 0-10V, requiring just one pulse of the new frequency to update the output voltage.

The full-scale frequency is set using two on board decimal rotary switches, and an onboard jumper selects the output span so that 00.0 V can represent 0 Hz or 90% of the full-scale frequency.

The full-scale frequency can be set between 10 Hz and 100 kHz. The lowest frequency which can be converted is 0.25 Hz.

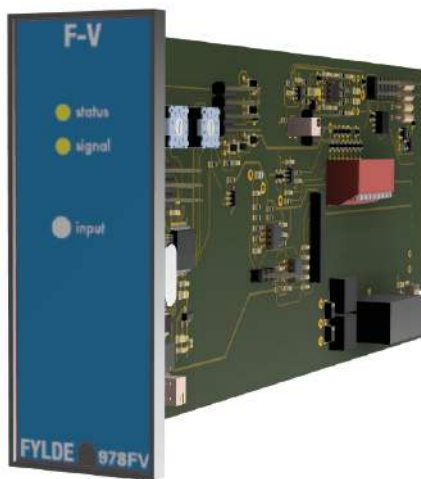
A low noise output combined with linearity and accuracy exceeding 0.1% provides excellent analogue performance, and selecting the on board 3 pole filter provides a frequency averaging function when required.

Front panel indicators show "signal present" and "status". A front panel control can be used to adjust signal sensitivity.

12V DC transducer power and 5V TTL buffered frequency outputs are available at the module edge connector.

Power requirement is 10-36V DC.

The module is mechanically and electrically compatible with other 9-Series modules and with FYLDE 2U racks and instrument cases.



- 10Hz TO 100kHz Measurement range
- Full range or final 10% equals Vout
- Opto coupled input.
- 8 Hysteresis settings.
- x2 Digital outputs