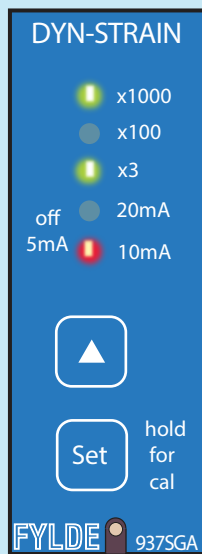


# FE-937-SGA Dynamic Strain Gauge Amplifier



Front panel shown actual size

- Low noise dynamic measurements
- No balancing required
- 3 current settings
- Dynamic calibration
- Built-in filtering

The FE-937-SGA is a low noise differential amplifier designed for dynamic strain gauge applications at frequencies from 1Hz to over 100kHz, which may be applied advantageously with a single gauge, and 1/2 or full bridges.

The FE-937-SGA energises a remote strain gauge with an exact constant current allowing operation with long twisted pair cables and zener barriers whilst providing immunity from long term effects such as temperature variation.

The amplifier is A.C. coupled and provides a dynamic signal with the D.C. level of any static signal removed. Bridge balancing is not required.

A special dynamic calibration feature, which is traceable to national standards, enables the exact transfer function of the system to be proven. Both high pass and low pass filters are included, allowing the required measurement bandwidth to be configured.

Simple front panel controls allow precise gains of up to x3000, with 3 current settings for application with gauges from 120  $\Omega$  to over 1k $\Omega$ .

No bridge completion is required.

Front panel controls may be locked if required.

Power requirement available is 9-36 V D.C.

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