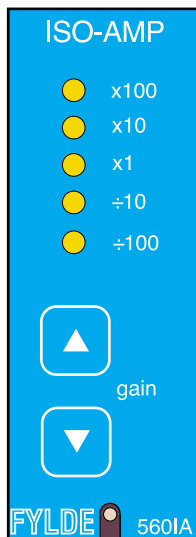


FE-560-IA Isolation Amplifier



Front panel shown actual size

Power Line Monitoring

Ground Loop Elimination

Current Shunt Measurements

Oscilloscope front end

The FE-560-IA is an Isolation Amplifier in the FYLDE "blue panel" modular range of signal conditioning, and is a general purpose isolation amplifier for front end use when hazardous voltages must be measured.

Voltage isolation is up to 1500 V DC or pk*

FYLDE offer a choice of input connectors including the "Protection" BNC connector (rated at 1000 V pk) or alternative Lemo plastic bodied 2 pin.

The amplifier is fully protected using advanced depletion mode FET devices and has a gain range of 1/100 up to x100.

The amplifier has additional on card controls for AC/DC coupling and low pass filter roll off adjust.

The module may be housed in the "PE" range of enclosures starting with the FE-PE2 for 2 channels up to the FE-PE17 for a maximum of 16 amplifiers.

Power source is either 115 or 230V 50/60Hz and a DC power option is available.

* May be limited by input connector choice.

ISOLATION	Voltage Capacitance Resistance Mode Rejection Leakage Current	>1500V dc or peak* (tested 5s @2500V). 15pF. >50 x 10 ⁹ ohms. >150dB** (dc to 60Hz). S/C source. < 2 μ A RMS at 230V RMS 50Hz.
GAIN	Switched Linearity Accuracy Temp.Coefficient Stability	\div 100, \div 10, x1, x10, x100 \pm 0.02% FS. \pm 0.25 % of gain setting. < 0.01% per °C. < 0.1% change over 12 months.
FREQUENCY RESPONSE	Internal AC coupling	DC - 50kHz (3dB). 1.6Hz (-3dB) Factory fitted option.
INPUT	Voltage Protection Offset Voltage / TC Impedance Noise	Maximum 1000V DC or Pk* Against incorrect gain setting up to Maximum input. <200 μ V / <10 μ V/°C RTI. >1M Ω . < 20 μ V pk-pk dc-20kHz RTI.
FILTER	Internal Low Pass filter Setting	3 pole Butterworth (60dB/decade). 50Hz to 50kHz by plug in Resistor network.
OUTPUT	Voltage Range Noise / offset Offset Temp Coefficient	\pm 10V nominally (min \pm 9.8V) @ \pm 2mA. <1mV RMS DC-20kHz / < \pm 15mV < 1mV/°C.
TEMPERATURE RANGE		0 - 50°C.
POWER SUPPLY	Requirement	200-250V 50Hz standard. 100-125V 50/60Hz to order. 11-14VDC by FE-605-DCC fitment.
CONNECTOR		25 way 0.1" pitch edge connector.
MECHANICAL	Dimensions / weight	panel 2.75" x 1", overall depth 8.2" / 200gm
HOUSING		2 modules fit FE-PE2. 4 modules fit FE-PE4 8 modules fit FE-PE8. Up to 16 in FE-PE17(RK) RK= Rack Mount
PRESENTATION		Blue front panel 2.75" x 1". * depending on I/P connector choice **gain x100