



## Product Description

The Analogue Amplifier LAC 65.1 is a universal amplifier for static / semi-static strain gauge applications.

Settings for zero, gain and filtering is done by DIP-switches. In addition fine trimming for zero and gain by potentiometers.

Two analogue outputs are available: voltage output ( $\pm 10$  V) and current output (0/4 ... 20 mA).

Overflow control, status signal by 2 LED's.

Cable failure detection.

## Key Features

- Load cell excitation 2.5 V AC, 425 Hz for up to 8 load cells 350  $\Omega$
- 6 Wire load cell connection
- Two analogue outputs 0/4 ... 20 mA and  $\pm 10$  V
- Input filtering 0.5 ... 32 Hz
- Zero/gain adjustment by DIP switches and fine trimming potentiometer
- Extremely stable zero point
- Overflow control, LED display
- Cable failure detection
- Power supply 12 ... 24 V DC
- DIN-rail mounting

Specifications	
Linearity	< 0.01 %
Analogue input range	$\pm 0.17$ mV/V to 3.3 mV/V, gain adjustment by DIP switches and fine trimming potentiometer
Excitation	2.5 V AC 425 Hz, for up to 8 load cells (350 $\Omega$ ) or 24 load cells (1 100 $\Omega$ ) active sense for cable length up to 100 m
Zero adjustment (Offset)	$\pm 80$ %, zero adjustment by DIP switches and fine trimming potentiometer
Current output	0 ... 20 mA or 4 ... 20 mA, $R_{load} \geq 500 \Omega$
Voltage output	$\pm 10$ V, $R_{load} \geq 500 \Omega$
Active filtering 40 dB / decade	0.25; 0.5; 1; 2; 4; 8; 16; 32 Hz selectable
Temperature range	-20 °C to +50 °C (operating); -20 °C to +60 °C (storage)
Temperature effects	on zero < $\pm 30$ ppm/°C, on span < $\pm 15$ ppm/°C
Housing	114 x 78 x 16 mm, protection IP20, for standard 35 mm DIN-rail mounting
Power supply	12 ... 24 V DC +10 / -15%, 3 W max., galvanically isolated

### System Configuration

