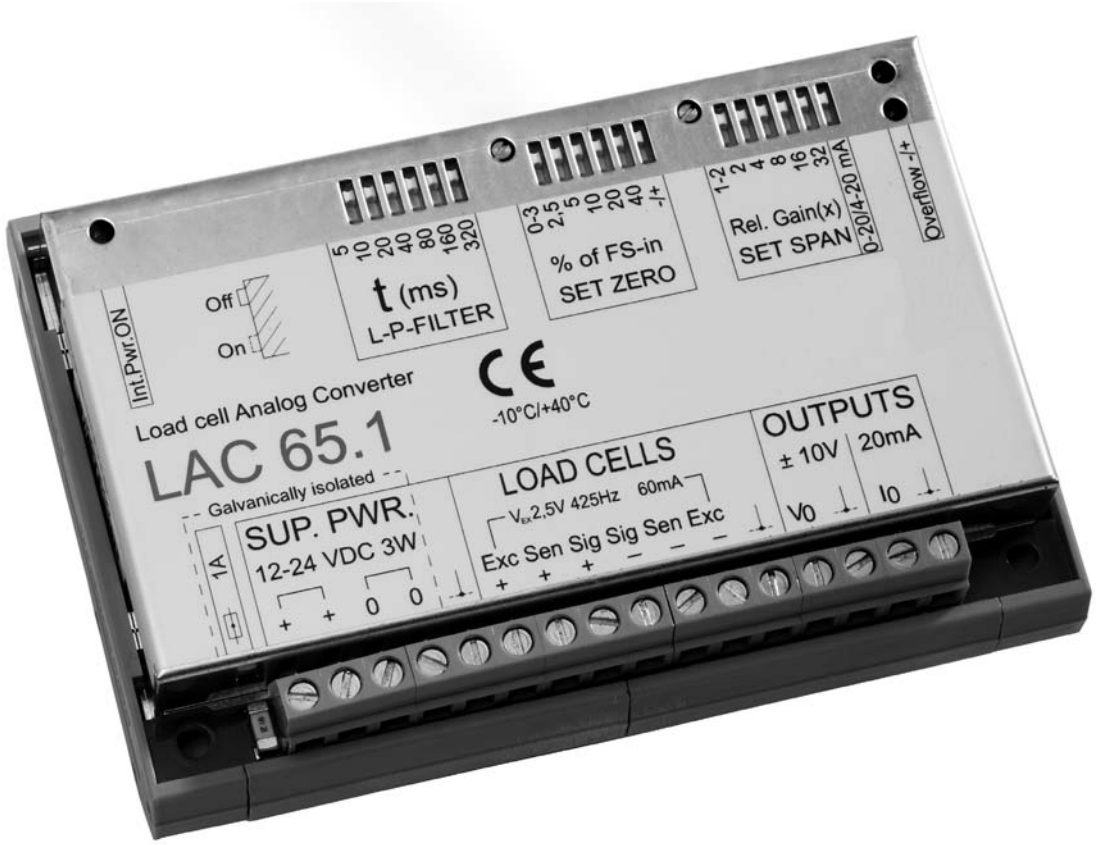
Type LAC 65.1 Analogue Amplifier



IP20

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 (±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 Ω
- 6 Wire load cell connection
- Two analogue outputs 0/4 ... 20 mA and ±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	± 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 Ω) or 24 load cells (1 100 Ω) active sense for cable length up to 100 m
Zero adjustment (Offset)	±80 %, zero adjustment by DIP switches and fine trimming potentiometer
Current output	0 ... 20 mA or 4 ... 20 mA, R_{load} ≥ 500 Ω
Voltage output	±10 V, R_{load} ≥ 500 Ω
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 < ±30 ppm/°C, on span < ±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

