



Strainstall

THE WORLD of **load measurement and stress analysis**

Product

Line Amplifier Type 2125



The Type 2125 Line Amplifier is a general purpose strain gauge amplifier, designed for ease of installation and commissioning. It is housed in a die-cast enclosure for ruggedness.

- **Quarter, Half or Full Bridge Strain gauge Amplifier**
- **4 – 20 mA output**
- **Die-cast enclosure to IP65**

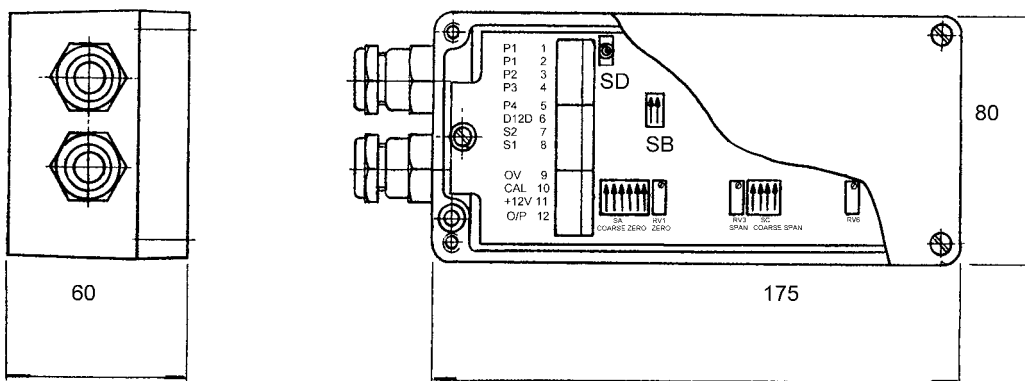
Normally, supply voltage is +13 to +15 V DC, and a 24 V DC version is available on request. The amplifier can also be supplied within a larger outer enclosure containing summing PCB for multiple load cell use. These can also contain a power supply unit for different voltage inputs.

The Type 2125 can be used in most locations such as cranes, silos, test rigs etc or where a strain gauge or load cell application requires signal conditioning.



Specification

Power Supply:	+13 to +15 V DC unregulated
Output:	4-20 mA into 0-375Ω
Input Configuration:	Quarter, Half or Full Bridge
Gauge Resistance:	Minimum 120Ω Half or Quarter Bridge, or 240Ω Full Bridge. Internal bridge completion provided for 120Ω gauges. (Other values to order, e.g. 350Ω).
Gain Range:	Continuously variable, 100 microstrain to 4800 microstrain FRO, using switched coarse gain and variable fine gain adjustment.
Offset Adjustment Range:	Bridge offsets of ±5000 microstrain can be accommodated using switched coarse and variable fine zero adjustment.
Common Mode:	CMRR 70 db Typical.
Zero Temperature Co-efficient:	0.01% FRO/°C at 3000 microstrain sensitivity.
Gain Temperature Co-efficient:	0.01% FRO/°C
Linearity:	0.02% FRO
Noise:	Maximum 1% FRO Peak to Peak or 3 microstrain whichever is the greater.
Frequency Response:	D.C. to 500Hz minimum at the highest gain.
Input Impedance:	Exceeds 40KΩ differential.
Operating Temperature:	-5 to +50°C.
Storage Temperature:	-10 to +60°C.
Enclosure:	78 x 58 x 200mm nominal including glands in a die cast enclosure.
Sealing:	IP65



Dimensions in mm.

Due to continuous development, Straininstall UK reserve the right to change specification without notice.

2125.01/16236/05-02

STRAININSTALL's team of experienced engineers operates from offices in Cowes, Bath and Aberdeen (UK) and Tønsberg (Norway). For further information, please contact:

Straininstall UK Ltd.
9-10 Mariners Way
Cowes
Isle of Wight PO31 8PD
United Kingdom

Tel: +44(0)1983 203600
Fax: +44(0)1983 291335
Email: sales@straininstall.com

www.straininstall.com