



The ALA5 is an ATEX approved 2 Wire 4 - 20 mA strain gauge/load cell amplifier designed for operation within hazardous zones 0, 1 & 2

Introduction

The ALA5 is an ATEX approved strain gauge/load cell amplifier designed for operation within hazardous zones 0, 1 & 2.

The high performance amplifier provides 2-wire 4-20 mA current loop output and connects in-line for a range of signal conditioning for strain gauges, load cells, pressure and torque transducers. Intrinsically safe to EN60079-11 (previously EN 50020) standards.

Designed for fitting in-line to strain gauge sensors such as load cells, the amplifier is housed within a stainless steel IP67 NEMA 4 EMC protected enclosure and is supplied with 1m strain gauge cable and 5m output cable.

An OEM ICA5ATEX, option is available for customers wishing to embed the ATEX amplifier within the sensor. Please note: the ICA5ATEX is approved for incorporation into load cells and other enclosures.

Specification at a Glance

- Provides 2-wire 4-20mA current loop output
- Input range up to 5 mV/V
- Bridge impedance min 350 Ohms max 5000 Ohms
- Fast calibration via gain and offset trim
- Wide temperature range -40°C to + 85°C
- Supply voltage range min 9 V max 28 V
- Supplied with 1 m strain gauge cable and 5 m output cable & stainless steel enclosure 96 x 28 mm diameter
- Environmentally sealed to IP67



User Benefits

- High performance amplifier certified for ATEX Hazardous Zones 0, 1 & 2
- Designed for fitting in-line to strain gauge sensors such as load cells
- Robust design, reverse polarity & short circuit protected
- OEM option available

Ideal Applications

- Hazardous Areas
- Oil & Gas Industry
- Chemical
- Food Industry



Related Product



ICA5 ATEX

ATEX Intrinsically Safe, OEM strain gauge converter, 4-20mA 2 wire

Case Study

The Application:

A paint manufacturer required a remote display showing the weight of a storage tank located in a hazardous area. The weight of the tank was already displayed within the hazardous zone which was connected to ATEX approved strain gauges and indicator, but there was no display in the safe working zone where a display was required



was established via a barrier network to one of Mantracourt's panel display instruments which was fitted with a current input module. In addition, a relay module within the panel instrument provided a pair of volt-free change-over

The Solution:

Using the existing strain gauges connected to an ATEX 4-20mA Load Cell Amplifier (ALA5), a 4 to 20mA current loop

contacts operating at two user defined set-points which acted as a tank level alarm for the operator.

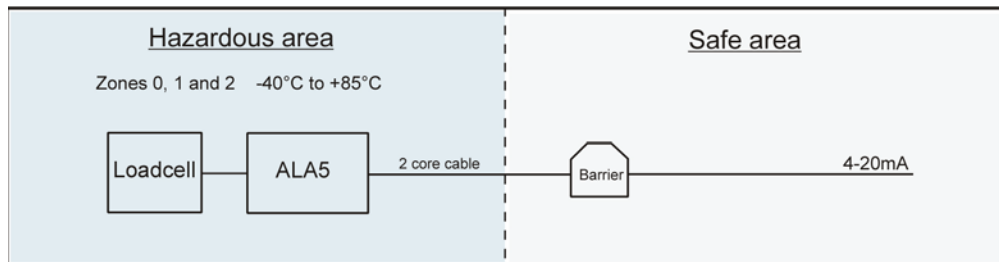
CE & Environmental

Storage temperature	- 40 to +85°C
Operating temperature	- 40 to +85°C
Relative humidity	95% maximum non condensing
IP Rating	IP67

CE Environmental Approvals

European EMC Directive 2004/108/EC

Please Note: ICA5ATEX is approved for incorporation into load cells and other enclosures, however installers must comply to ATEX & QAN (Quality Assurance Notification). Please contact us to discuss your requirements.



For more information contact us today...

mantracourt.com
 technical@mantracourt.com
 Mantracourt Electronics Ltd
 The Drive, Farringdon, Exeter,
 Devon, EX5 2JB, UK
 tel: +44 (0) 1395 232020
 fax: +44 (0) 1395 233190



In the interests of continued product development, Mantracourt Electronics Limited reserves the right to alter product specifications without prior notice

Distribuidor

Brasil e América do Sul

CONTATO

Endereço

Rua Sete de Setembro, 2656 - Centro
13560-181 - São Carlos - SP - Brasil

Telefone

+ 55 (16) 3371-0112
+ 55 (16) 3372-7800

Internet

www.metrolog.net
metrolog@metrolog.net

