





# BIAS 1 CONTROLLER



data sheet

## PRODUCT DESCRIPTION

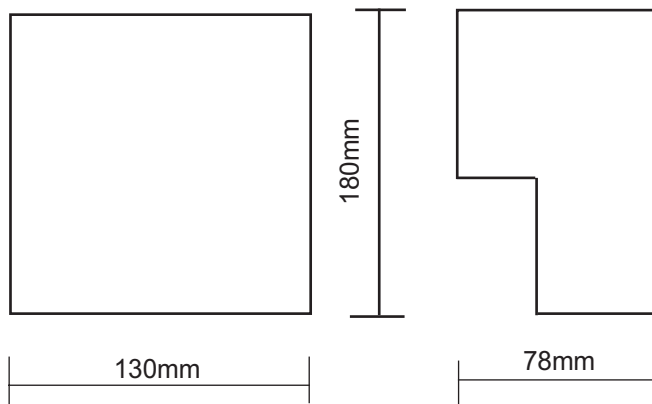
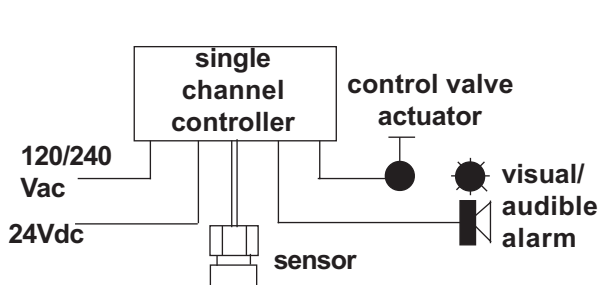
The Bias 1 is a wall mounted single-channel Control Unit which operates in conjunction with a remotely installed Sensor to detect the presence of flammable gas. The unit provides alarm indications and relay outputs at two levels, and LED bar indication of gas concentration in the 0 to 100% LEL range. Fault indication and outputs are via volt-free relay contacts. The Bias 1 single channel gas detection control unit is designed to operate with the Sieger model 780/785 sensor for the detection of flammable gases/vapours in potentially hazardous areas.

### FEATURES:

- single channel controller.
- suitable for gas sensors.
- alarm relays for two levels of early warning of gas hazards.
- clear, easy to read display of gas concentrations measured at the sensor.

### APPLICATIONS:

- smaller boiler rooms.
- bottled gas storage areas.
- paint stores.



dimensions in millimetres

MEMBERS OF THE ZELLWEGER ANALYTICS DIVISION

**FRANCE**

**Zellweger Analytics SA**  
33 rue de Ballon  
ZI des Richardets  
F-93165 Noisy le Grand Cedex  
France  
Tel: (33) 01 48 15 80 80  
Fax: (33) 01 48 15 80 00

**MIDDLE EAST**

**Zellweger Analytics**  
Middle East Regional Office  
PO Box 52196  
Karama-Bur Dubai UAE  
Tel: (971) 4 360940  
Fax: (971) 4 345802

**GERMANY**

**Zellweger Analytics GmbH**  
Sollner Strasse 65b  
D-81479 München  
Germany  
Tel: (49) 89 791 920  
Fax: (49) 89 791 9243

**NETHERLANDS**

**Imbema Analytics BV**  
Maurisstraat 1-7  
Postbus 160  
2000 AD Haarlem  
Netherlands  
Tel: (31) 23 5172424  
Fax: (31) 23 5318040

**ITALY**

**Zellweger Analytics srl**  
Via F. Primateo 168  
I-20147 Milano  
Italy  
Tel: (39) 2 48300436  
Fax: (39) 2 48302314

**USA**

**Zellweger Analytics Inc**  
(Sieger Division)  
405 Barclay Blvd  
Lincolnshire  
Illinois 60069, USA  
Tel: (1) 847 913 0015  
Fax: (1) 847 634 1371  
E-mail: sieger@zelana.com

**SINGAPORE**

**Zellweger Analytics**  
Sieger Representative Office  
84 Taus Avenue 11  
Singapore 639098  
Republic of Singapore  
Tel: (65) 8645318/9  
Fax: (65) 8623858

**UNITED KINGDOM**

**Zellweger Analytics Limited**  
Nunn Brook Road  
The County Estate  
Sutton in Ashfield  
Nottingham  
NG17 2HU, UK  
Tel: (44) 1623 513222  
Fax: (44) 1623 552119  
E-mail: 101325.1100@compuserve.com

**SPAIN**

**Zellweger Analytics SA**  
Avda Remolar 31  
08820 El Prat de Llobregat  
Barcelona  
Spain  
Tel: (34) 3 379 9611  
Fax: (34) 3 379 8551

**INTERNATIONAL HQ**

**Zellweger Analytics Limited**  
Hatch Pond House  
4 Stinsford Road  
Nuffield Estate  
Poole  
Dorset  
BH17 0RZ, UK  
Tel: (44) 1202 676161  
Fax: (44) 1202 678011  
E-mail: postmaster@zellweger-analytcs.co.uk

**SWITZERLAND**

**Zellweger Analytics GmbH**  
Rheinstrasse 28  
CH-4133 Pratteln  
Switzerland  
Tel: (41) 61 8214100  
Fax: (41) 61 8214104

## General Specification

### Power Requirements:

240Vac  $\pm 10\%$ .  
50Hz  $\pm 6\%$ , 8VA max.  
21.6 to 32Vdc (24V Nom) 5VA max.

### Indicators

#### Gas Concentration:

0 - 100% LEL Red bar, 10% steps.  
red LEDs.

#### A1 and A2 Alarms:

amber LED.

#### Fault:

green LED.

#### Power:

### Relays

#### A1, A2 & Fault:

SPCO contacts rated 2A,  
240Vac non inductive.  
A1, A2 relays normally de-  
energised, fault relay normally  
energised.

### Alarm Range

#### A1 & A2:

10% to 90% FSD in 10% steps.  
It is recommended that the A2  
level is not set above 60% LEL.

### Operating Temperature:

0° to 40°C.

### Storage Temperature:

-20° to +60°C.

### Terminals:

screw type, cable sizes up to  
1.5mm<sup>2</sup>.

### Weight:

785g.

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# BIAS 1

## MODULE DE COMMANDE

# fiche technique



### DESCRIPTION DU PRODUIT

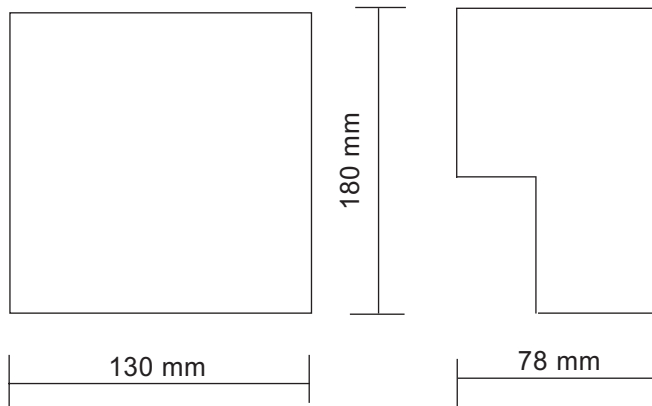
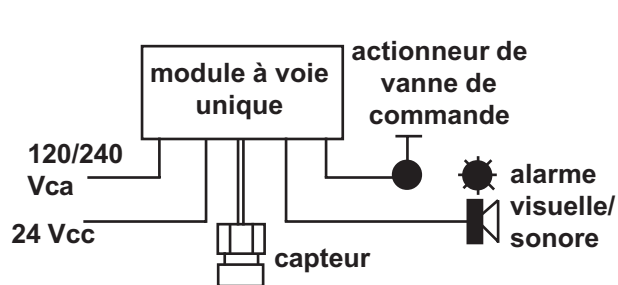
Le Bias 1 est une unité de commande à une voie et montage mural qui fonctionne en parallèle à un capteur installé à distance pour détecter la présence de gaz inflammables. Le module offre des indications d'alarme et des sorties relais à 2 niveaux et une indication par barre de DEL de concentration de gaz dans la gamme 0-100% LIE. L'indication et les sorties de défaut s'effectuent par relais à contacts secs. Le module de détection de gaz à voie unique Bias 1 est conçu pour fonctionner avec le capteur Sieger modèle 780/785 pour la détection de gaz/vapeurs inflammables dans des zones potentiellement dangereuses.

### CARACTERISTIQUES:

- module à voie unique.
- idéal pour les capteurs de gaz.
- relais d'alarme pour deux niveaux de préalarme de gaz dangereux.
- affichage clair et facile à lire de concentrations de gaz mesurées au capteur.

### APPLICATIONS:

- petites chaufferies.
- zones de stockage de bouteilles de gaz.
- magasins de peinture.



dimensions en millimètres

MEMBERS OF THE ZELLWEGER ANALYTICS DIVISION

**FRANCE**  
Zellweger Analytics SA  
33 rue de Ballon  
ZI des Richardets  
F-93165 Noisy le Grand Cedex  
France  
Tel: (33) 01 48 15 80 80  
Fax: (33) 01 48 15 80 00

**GERMANY**  
Zellweger Analytics GmbH  
Sollner Strasse 65b  
D-81479 München  
Germany  
Tel: (49) 89 791 920  
Fax: (49) 89 791 9243

**ITALY**  
Zellweger Analytics srl  
Via F. Primateo 168  
I-20147 Milano  
Italy  
Tel: (39) 2 48300436  
Fax: (39) 2 48302314

**SINGAPORE**  
Zellweger Analytics  
Sieger Representative Office  
84 Taus Avenue 11  
Singapore 639098  
Republic of Singapore  
Tel: (65) 8645318/9  
Fax: (65) 8623858

**SPAIN**  
Zellweger Analytics SA  
Avda Remolar 31  
08820 El Prat de Llobregat  
Barcelona  
Spain  
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**SWITZERLAND**  
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Rheinstrasse 28  
CH-4133 Pratteln  
Switzerland  
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**MIDDLE EAST**  
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405 Barclay Blvd  
Lincolnshire  
Illinois 60069, USA  
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Fax: (1) 847 634 1371  
E-mail: sieger@zelana.com

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Dorset  
BH17 0RZ, UK  
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Fax: (44) 1202 678011  
E-mail: postmaster@zellweger-analytics.co.uk

<http://www.zelana.com>

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## Caractéristiques Techniques Générales

<b>Tension d'Alimentation:</b>	240 Vca ±10% 50 Hz ±6%, 8 VA maxi. 21,6 à 32 Vcc (24 Vnom.) 5 VA maxi.
<b>Voyants</b>	
<b>concentration de gaz:</b>	0-100% LIE barre rouge, pas de 10%.
<b>alarmes A1 et A2:</b>	DEL rouges.
<b>défaut:</b>	DEL orange.
<b>alimentation:</b>	DEL verte.
<b>Relais</b>	
<b>A1, A2 et défaut:</b>	contacts SPCO calibrés 2A, 240 Vca non inductifs. Relais A1, A2 normalement en repos, relais de défaut normalement en état de travail.
<b>Gamme d'Alarme</b>	
<b>A1 &amp; A2:</b>	10% à 90% PE par pas de 10%. Il est conseillé de ne pas régler le niveau A2 au-dessus de 60% LIE.
<b>Température de Service:</b>	0° à 40°C.
<b>Température de Stockage:</b>	-20° à +60°C.
<b>Bornes:</b>	a vis, section câble maximum de 1,5 mm <sup>2</sup> .
<b>Poids:</b>	785 g.

# BIAS 1

## UNITÀ DI CONTROLLO

# scheda tecnica



### DESCRIZIONE DEL PRODOTTO

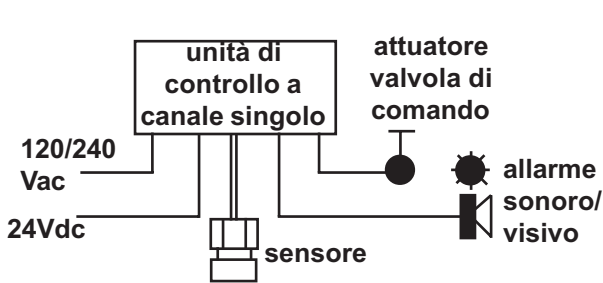
Bias 1 è un'unità di controllo a canale singolo, per montaggio a parete, che unitamente ad un sensore installato a distanza rivela la presenza di gas infiammabili. L'unità emette segnali di allarme ed uscite relè a due livelli, oltre ad indicare la concentrazione del gas nel campo 0 - 100% LEL mediante barre elettroluminescenti (LED). La segnalazione dei guasti e le uscite si avvalgono di contatti relè senza tensione. L'unità di controllo gas Bias 1 a canale singolo funziona con i sensori Sieger modello 780/785 per il rilevamento di gas/vapori infiammabili in aree con potenziale pericolo di esplosione.

### CARATTERISTICHE:

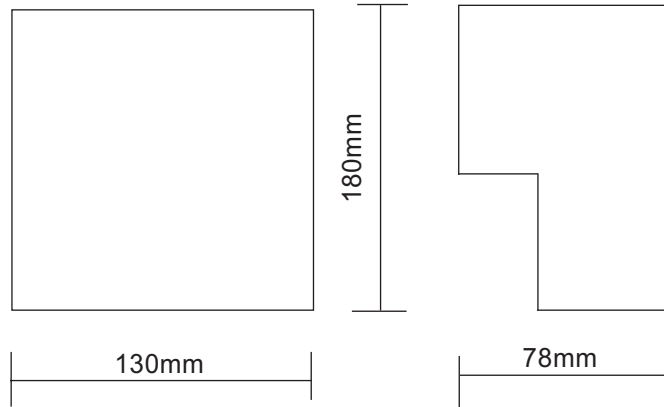
- unità di controllo a canale singolo.
- adatta a sensori per gas.
- relè di allarme a due livelli per la tempestiva segnalazione dei gas pericolosi.
- display di facile lettura, per la visualizzazione delle concentrazioni di gas misurate sul sensore.

### APPLICAZIONI:

- sale caldaie di piccole dimensioni.
- aree di stoccaggio per bombole di gas.
- negozi di vernici.



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dimensioni in millimetri

**FRANCE**  
Zellweger Analytics SA  
33 rue de Ballon  
ZI des Richardets  
F-93165 Noisy le Grand Cedex  
France  
Tel: (33) 01 48 15 80 80  
Fax: (33) 01 48 15 80 00

**MIDDLE EAST**  
Zellweger Analytics  
Middle East Regional Office  
PO Box 52196  
Karama-Bur Dubai UAE  
Tel: (971) 4 360940  
Fax: (971) 4 345802

**GERMANY**  
Zellweger Analytics GmbH  
Sollner Strasse 65b  
D-81479 München  
Germany  
Tel: (49) 89 791 920  
Fax: (49) 89 791 9243

**NETHERLANDS**  
Imbema Analytics BV  
Maurisstraat 1-7  
Postbus 160  
2000 AD Haarlem  
Netherlands  
Tel: (31) 23 5172424  
Fax: (31) 23 5318040

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Via F. Primateo 168  
I-20147 Milano  
Italy  
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405 Barclay Blvd  
Lincolnshire  
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Tel: (1) 847 913 0015  
Fax: (1) 847 634 1371  
E-mail: sieger@zelana.com

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84 Taus Avenue 11  
Singapore 639098  
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08820 El Prat de Llobregat  
Barcelona  
Spain  
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Fax: (34) 3 379 8551

**INTERNATIONAL HQ**  
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4 Stinsford Road  
Nuffield Estate  
Poole  
Dorset  
BH17 0RZ, UK  
Tel: (44) 1202 676161  
Fax: (44) 1202 678011  
E-mail: postmaster@zellweger-analytcs.co.uk

**SWITZERLAND**  
Zellweger Analytics GmbH  
Rheinstrasse 28  
CH-4133 Pratteln  
Switzerland  
Tel: (41) 61 8214100  
Fax: (41) 61 8214104

## Dati Tecnici

<b>Potenza Richiesta:</b>	240Vac $\pm 10\%$ 50Hz $\pm 6\%$ , 8VA max da 21.6 a 32Vdc (24V Nom) 5VA max.
<b>Indicatori</b>	
<b>Concentrazione di Gas:</b>	barra rossa 0 - 100% LEL, incrementi del 10%.
<b>Allarmi A1 e A2:</b>	LED rossi.
<b>Guasto:</b>	LED ambra.
<b>Tensione Inserita:</b>	LED verde.
<b>Relè</b>	
<b>A1, A2 e Guasto:</b>	contatti SPDT a 2A, 240Vac non induttivi. Relè A1, A2 normalmente disattivati, relè di guasto normalmente attivato.
<b>Allarmi</b>	
<b>A1 e A2:</b>	da 10% a 90% FSD con incrementi del 10%. Si consiglia di impostare il livello A2 non oltre il 60% LEL.
<b>Temperatura di Esercizio:</b>	da 0° a 40°C.
<b>Temperatura di Stoccaggio:</b>	da -20° a +60°C.
<b>Morsetti:</b>	A vite, cavi fino a 1.5mm <sup>2</sup> .
<b>Peso:</b>	785g.

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# BIAS 1

## GASWARNGERÄT



# Datenblatt

### PRODUKTBESCHREIBUNG

Bias 1 ist eine wandmontierte, einkanalige Steuerungseinheit, die zusammen mit einem entfernt aufgestellten Sensor betrieben wird, um das Vorhandensein brennbarer Gase aufzuspüren. Die Einheit bietet Alarmanzeigen und Relaisausgänge in zwei Stufen sowie eine Anzeige der Gaskonzentration von 0 bis 100% LEL über eine LED-Leiste. Die Störungsanzeige und die Ausgänge erfolgen über spannungsfreie Relaiskontakte. Die einkanalige Steuerungseinheit Bias 1 für die Gaswarnung wurde für einen Betrieb mit den Sensoren Sieger Modell 780/785 zum Aufspüren brennbarer Gase/Dämpfe in potentiellen Gefahrenbereichen entwickelt.

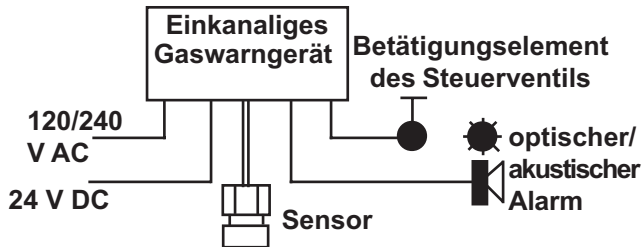
#### MERKMALE:

- Einkanaliges Gaswarngerät.
- Geeignet für Gas-Sensoren.
- Alarmrelais für zwei Stufen zur frühzeitigen Warnung bei Gasgefahren.
- Klare, leicht ablesbare Anzeige der am Sensor gemessenen Gaskonzentrationen.

#### ANWENDUNGEN:

- Kleinere Kesselräume.
- Lagerbereiche von Gasflaschen.
- Farbengeschäfte.





MEMBERS OF THE ZELLWEGER ANALYTICS DIVISION

**FRANCE**  
Zellweger Analytics SA  
33 rue de Ballon  
ZI des Richardets  
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France  
Tel: (33) 01 48 15 80 80  
Fax: (33) 01 48 15 80 00

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Karama-Bur Dubai UAE  
Tel: (971) 4 360940  
Fax: (971) 4 345802

**GERMANY**  
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D-81479 München  
Germany  
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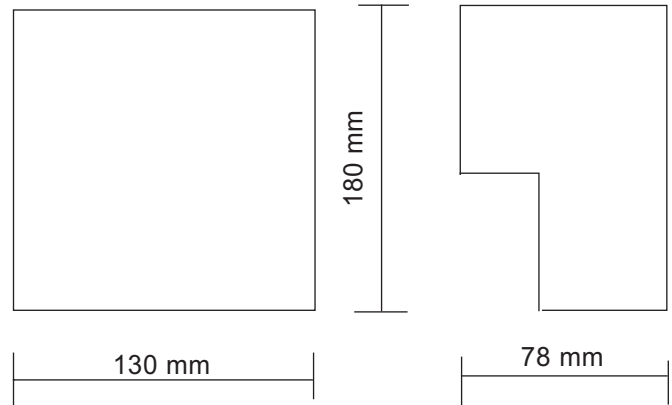
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Dorset  
BH17 0RZ, UK  
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**SWITZERLAND**  
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Rheinstrasse 28  
CH-4133 Pratteln  
Switzerland  
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Abmessungen in Millimetern

## Allgemeine Spezifikation

### Leistungsanforderungen:

240V AC  $\pm 10\%$   
50 Hz  $\pm 6\%$ , max. 8 VA  
21,6 bis 32 V DC (24 V Nenn)  
max. 5 VA.

### Anzeigen

**Gaskonzentration:**  
**Alarmer A1 und A2:**  
**Fault:**  
**Power:**

0 - 100% LEL roter Balken, 10% Schritte.  
Rote LEDs.  
Bernsteinfarbene LED.  
Grüne LED.

### Relais:

SPCO-Kontakte mit 2A Nenn,  
240 V AC nicht induktiv.  
A1, A2 Relais normal abgefallen,  
Störungsrelais normal angezogen.

### Alarmbereich A1 & A2:

10% bis 90% des Meßbereichs in  
10% Schritten. Wir empfehlen, den  
Pegel von A2 nicht über 60% LEL  
einzustellen.

### Betriebstemperatur:

0 °C bis 40 °C.

### Lagertemperatur:

-20 °C bis +60 °C.

### Klemmen:

Schraubklemmen für Kabeldurch-  
messer bis 1,5 mm<sup>2</sup>.

### Gewicht:

785 g.



# BIAS 1

## UNIDAD DE CONTROL

# ficha técnica



### DESCRIPCIÓN DEL PRODUCTO

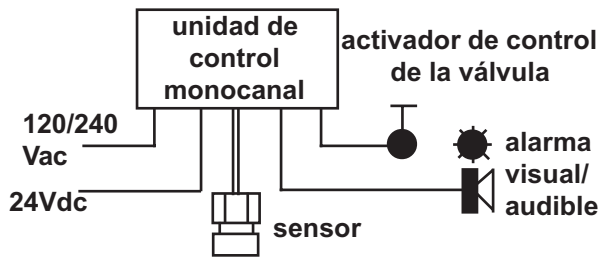
La Bias 1 es una Unidad de Control monocanal de montaje en pared que funciona junto a un Sensor instalado remotamente para detectar la presencia de gases inflamables. La unidad suministra indicaciones de alarma y salidas de relé a dos niveles, así como indicación por barras LED de la concentración del gas dentro de parámetros LIE que van del 0 al 100%. Las indicaciones de fallo y salidas se realizan a través de contactos de relé libres de voltaje. La unidad de control monocanal para la detección de gas, Bias 1, está diseñada para funcionar con el sensor modelo Sieger 780/785 para la detección de gases/vapores inflamables en zonas potencialmente peligrosas.

### CARACTERÍSTICAS:

- controlador monocanal.
- apto para sensores de gas.
- relés de alarma para dos niveles de primera advertencia de peligro de gas.
- columna de LEDs indicativa de la concentración de gas, clara y fácil de leer, con mediciones tomadas del sensor.

### APLICACIONES:

- pequeñas salas de calderas.
- áreas de almacenamiento de gas embotellado.
- almacenes de pintura.



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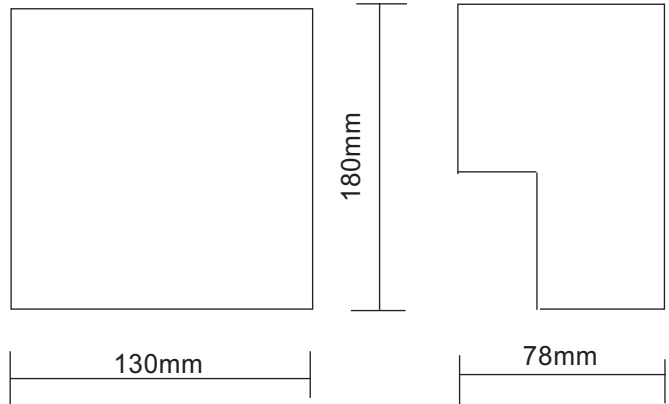
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Maurisstraat 1-7  
Postbus 160  
2000 AD Haarlem  
Netherlands  
Tel: (31) 23 5172424  
Fax: (31) 23 5318040

**USA**  
Zellweger Analytics Inc  
(Sieger Division)  
405 Barclay Blvd  
Lincolnshire  
Illinois 60069, USA  
Tel: (1) 847 913 0015  
Fax: (1) 847 634 1371  
E-mail: sieger@zelana.com

**UNITED KINGDOM**  
Zellweger Analytics Limited  
Nunn Brook Road  
The County Estate  
Sutton in Ashfield  
Nottingham  
NG17 2HU, UK  
Tel: (44) 1623 513222  
Fax: (44) 1623 552119  
E-mail: 101325.1100@compuserve.com

**INTERNATIONAL HQ**  
Zellweger Analytics Limited  
Hatch Pond House  
4 Stinsford Road  
Nuffield Estate  
Poole  
Dorset  
BH17 0RZ, UK  
Tel: (44) 1202 676161  
Fax: (44) 1202 678011  
E-mail: postmaster@zellweger-analytics.co.uk



dimensiones en milímetros

## Especificación General

### Alimentación:

240Vca  $\pm 10\%$   
50Hz  $\pm 6\%$ , 8VA max.  
de 21,6 a 32Vcc (24V Nom) 5VA max.

### Indicadores

#### concentración de gas:

de 0 - 100% barra LIE roja, incrementos del 10%.

#### alarmas A1 y A2:

LEDs rojos.

#### fallo:

LED ámbar.

#### alimentación:

LED verde.

### Relés

#### A1, A2 y fallo:

contactos SPCO con valores 2A, 240Vca no inductivos.

A1, A2 relés normalmente desenergizados, relé de fallo normalmente energizado.

### Rango de Alarmas A1 y A2:

de 10% a 90% FE en incrementos de 10%. Se recomienda no establecer el nivel A2 más allá del 60% del Límite Inferior Explosivo (LIE).

### Temperatura de Funcionamiento:

de 0° a 40°C.

### Temperatura de Almacenamiento:

de -20° a +60°C.

### Terminales:

Tipo tornillo, tamaño del cable de hasta 1,5mm<sup>2</sup>.

### Peso:

785g.

This publication is not intended to form the basis of a contract, and the company reserves the right to amend the design and specification of the instruments without notice.