1. DESCRIPTION

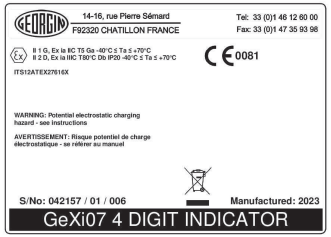
The GeXi07, GeXi08, GeXi27 and GeXi28 are panel mounting, intrinsically safe digital indicators that display the current flowing in a 4/20mA loop in engineering units. They are loop powered but only introduce a 1.2V drop.

The four models are electrically similar, but have different size displays and enclosures.

Model	Display	Bezel size
GeXi07	4 digits 15mm high	96 x 48mm
GeXi27	5 digits 12.7mm high and bargraph.	96 x 48mm
GeXi08	4 digits 34mm high	144 x 72mm
GeXi28	5 digits 29mm high and bargraph.	144 x 72mm

This abbreviated instruction sheet is intended to assist with installation & commissioning, a comprehensive instruction manual describing safety certification, system design and calibration is available from the GEORGIN sales office or may be downloaded from the GEORGIN website.

All the models have ATEX intrinsic safety certification for use in flammable gas & dust atmospheres. The certification label, which is located on the top of the instrument enclosure shows the certificate number & the certification codes. Copies of certificates may be downloaded from our website.



Typical certification information label

Special conditions for safe use

When used in Zone 0 indicator must be installed such that ignition source due to impact between aluminium label and iron/steel is excluded.

To avoid an electrostatic charge being generated instrument enclosure should only be cleaned with a damp cloth.

For installation in IIIC conductive dust atmospheres indicator terminals must have IP6X protection.

2. INSTALLATION

All the models have IP66 front of panel protection but they should be shielded from direct sunlight and severe weather conditions. The rear of each indicator has IP20 protection.

The GeXi07, GeXi08, GeXi27 & GeXi28 are CE marked to show compliance with the European Explosive Atmospheres Directive 2014/34/EU and the European EMC Directive 2014/30/EU

Cut-out dimensions

Recommended for all installations. Mandatory to achieve an IP66 seal between the instrument & the panel

GeXi07 & GeXi27

90 +0.5/-0.0 x 43.5 +0.5/-0.0

GeXi08 & GeXi28

136 +0.5/-0.0 x 66.2 +0.5/-0.0

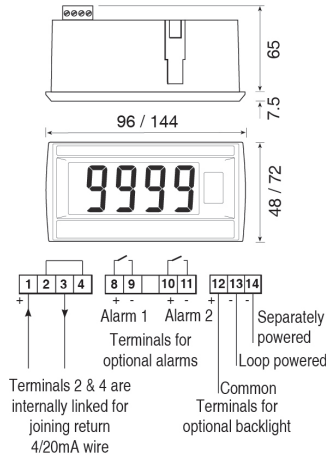
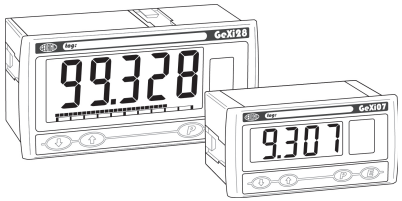


Fig 1 cut out dimensions & terminals

Abbreviated Instruction for

GeXi07, GeXi27, GeXi08 & GeXi28 intrinsically safe panel mounting loop powered indicators



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Régulateurs GE
RGI
O 14 - 16 rue eeerre
email: regulateurs@georgin.com web: www.georgin.com
eard, 92320 Châ ellon, FRANCe Tel: +33(0
)1 46 12 60 00 Fax: +33(0)1 47 35 93 98

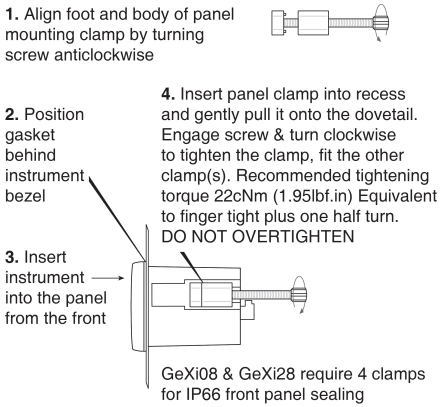


Fig 2 Installation procedure

EMC

For specified immunity all wiring should be in screened twisted pairs, with the screens earthed at one point within the safe area.

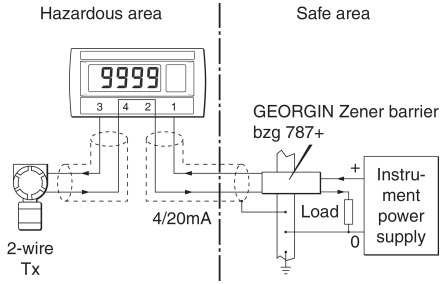


Fig 3 Typical measurement loop

Scale card

The indicator's units of measurement are shown on a printed scale card visible through a window at the right hand side of the display. The scale card is mounted on a flexible strip that is inserted into a slot at the rear of the instrument as shown below

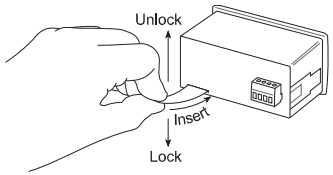


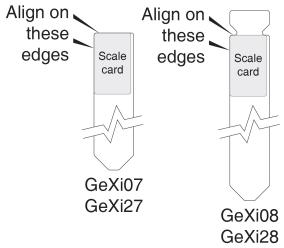
Fig 4 Inserting flexible strip carrying scale card into slot at the rear of indicator.

Thus the scale card can easily be changed without removing the indicator from the panel or opening the instrument enclosure.

New indicators are supplied with a printed scale card showing the requested units of measurement, if this information is not supplied when the indicator is ordered a blank card will be fitted.

A pack of self-adhesive scale cards printed with common units of measurement is available as an accessory from GEORGIN. Custom printed scale cards can also be supplied.

To change a scale card, unclip the protruding end of the flexible strip by gently pushing it upwards and pulling it out of the enclosure. Peel the existing scale card from the flexible strip and replace it with a new printed card, which should be aligned as shown below. Do not fit a new scale card on top of an existing card.



Align the self-adhesive printed scale card onto the flexible strip and insert the strip into the indicator as shown above.

Fig 5 Fitting scale card to flexible strip

3. OPERATION

The indicators are controlled via four front panel push buttons. In the display mode i.e. when the indicator is displaying a process variable, these push buttons have the following functions:

P While this button is pushed the indicator will display the input current in mA, or as a percentage of the instrument span depending upon how the indicator has been conditioned. When the button is released the normal display in engineering units will return. The function of this push button is modified when optional alarms are fitted to the indicator.

▼ While this button is pushed the indicator will display the numerical value and analogue bargraph* the indicator has been calibrated to display with 4mA input. When released the normal display in engineering units will return.

▲ While this button is pushed the indicator will display the numerical value and analogue bargraph* the indicator has been calibrated to display with 20mA input. When released the normal display in engineering units will return.

E No function in the display mode unless the tare function is being used.

P + ▼ Indicator displays firmware number followed by version.

P + ▲ When alarms are fitted provides direct access to the alarm setpoints if the 'ACSP' access setpoints in display mode function has been enabled.

P + E Provides access to the configuration menu via optional security code.

* Only the GeXi27 & GeXi28 have a bargraph

4. CONFIGURATION

Indicators are supplied calibrated as requested when ordered, if not specified default configuration will be supplied but can easily be changed on-site.

Fig 4 shows the location of each function within the configuration menu with a brief summary of the function. Please refer to the full instruction manual for detailed configuration information and for a description of the lineariser and the optional dual alarms.

Access to the configuration menu is obtained by pressing the ***P*** and ***E*** buttons simultaneously. If the indicator security code is set to the default '0000' the first parameter 'FunC' will be displayed. If the indicator is protected by a security code, 'CodE' will be displayed and the code must be entered to obtain access to the menu.

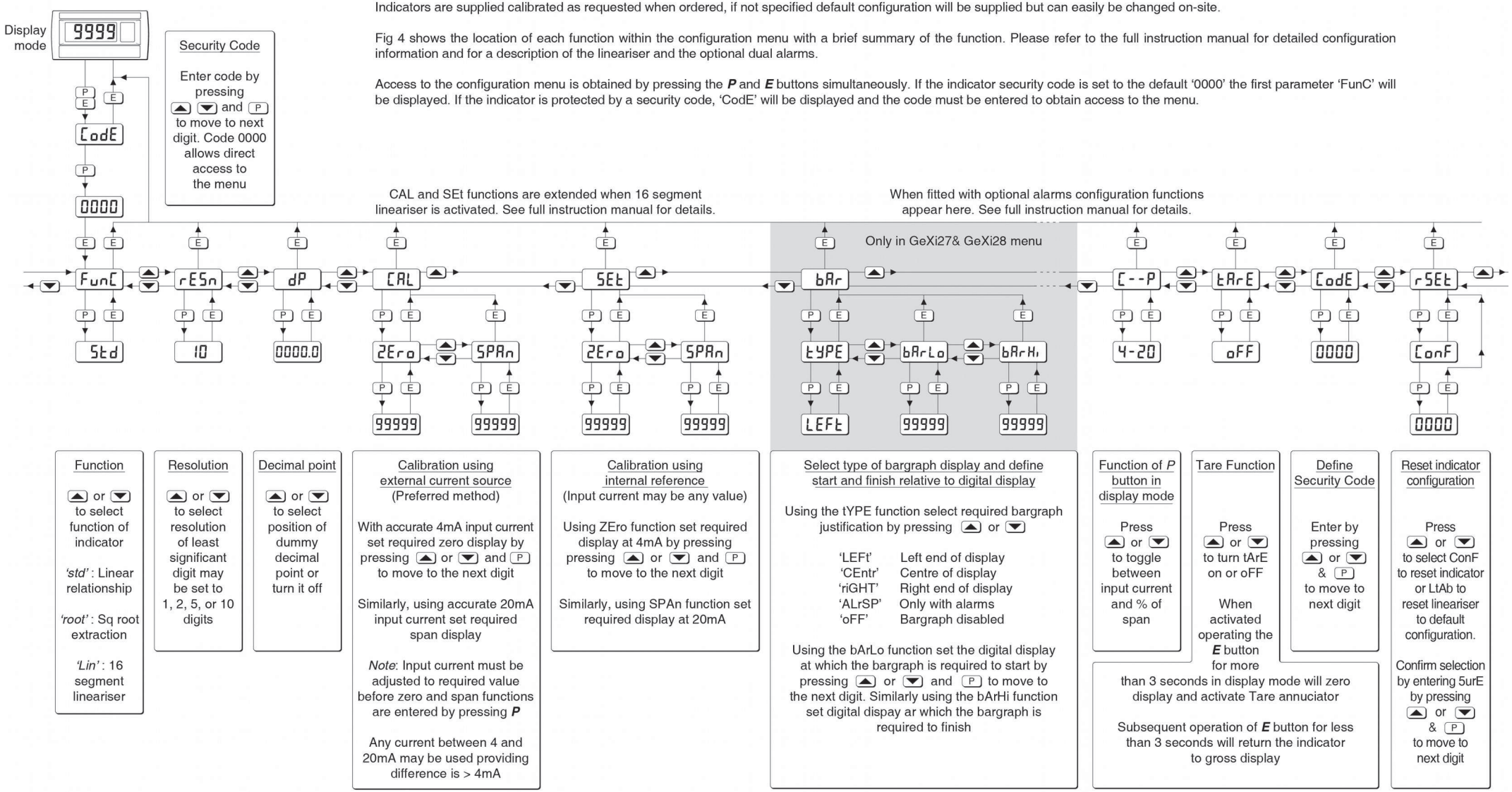


Fig 6 Configuration menu

Manuals, certificates and data-sheets can be downloaded from http://www.georgin.com/

GEORGIN
Sûreté des Procédés Industriels
14 - 16 rue Pierre Sémard, 92320 Châtillon, FRANCE
Tel: +33(0)1 46 12 60 00 Fax: +33(0)1 47 35 93 98
email: regulateurs@georgin.com web: wwwgeorgin.com