

LOOP PANEL METERS

4 digit display - Intrinsic safety

 - ATEX - 

DGN-SI 45/75



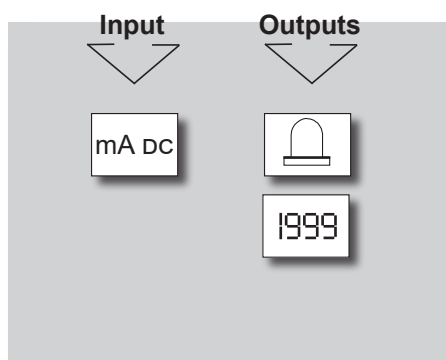
♦ The DGN SI is declined into 2 display versions:

DGN-SI 45 ± 2000 points

DGN-SI 75 ± 10000 points

Features:

- LCD 2 wire indicator
- Rear lighting configurable
- Configuration on front face without current generator
- 2 programmable alarm setpoints (option R)
- IP 65 front face protection.



They are powered by the 4/20 mA loop and can be placed in hazardous areas classified 0.1 or 2:

I.S. marking:  II 1 G Ex ia IIC T6

These instruments have received a certificate of examination of UE type according to the prescriptions of the standards EN 60079-0 (2006), EN 60079-11 (2007) and EN 60079-26 (2007) in accordance with the Directive ATEX 2014/34/UE.

Functions

The DGN-SI is a fully programmable digital panel meter. It is fitted with a microprocessor and a 4-key keyboard on front face, allowing an easy configuration of the display scale, without using a current generator.

Loop load 4/20 mA corresponding to a voltage drop < 1.5 Vdc at 20mA (rear-lighting still).

Inverted display possible.

♦ **Quick reading on the display:**

Of the min. and max. measures
Visualisation of the input electrical value

♦ **Input scale overstepping**

The meter will indicate a caliber overstepping by a message.

♦ **Access code:**

Possibility to protect the programming.



The friendly interface

♦ **Display:**

- LCD display, 16mm high, rear-lit.
- Display scale and positioning of the decimal point configurable by the user by 4 keys on front face.
- Possibility to adjust the intensity of the rear lighting (0-50-100%) by the positioning of 3 jumpers located at the rear of the meter. Note that the line drop will be proportional to the intensity of the rear-lighting.

Intensity of the rear-lighting	Max. line drop at 20mA
0%	< 1.5 Vdc
50%	< 6.5 Vdc
100%	< 10.5 Vdc

INDICATOR

Input features

Designation	Type	Accuracy (at +23°C)	Thermic drift	Measure range	Features
Process DGN-SI 45 DGN-SI 75	DC current 4/20 mA	0.1% of the measure range	<100ppm /°C	from 3.6 to 23 mA	Programmable scale factor Sampling time : 400ms. Response time (0 to 90%) : < 2s without alarms < 2.5s with alarms Dynamic of the input signal : 15 bits

Intrinsic safety parameters

	Terminals	Ui (Vdc)	Ii (mAdc)	Pi (W)	Li (mH)	Ci (µF)
With alarms (option R)	5,6	30	450	0,7	0	0
	1,2,3	15	50	0,2	0	0
Without alarms	5,6	45	500	0,9	0	0

Option/coding

Designation	Type	Features	
Alarm outputs R 	R: 2 alarm outputs of type NAMUR Mode setpoint programmable	Recording of the alarms. Hysteresis independently programmable from 0 to 100% of the setpoint in the display unit. Time delay independently programmable from 0 to 25 sec. in 1s. increases Visualisation of the state on front face Not insulated from the input	
DGN-SI 45 DGN-SI 75	± 2000 points (16mm) ± 10000 points (16mm)	<u>Display resolutions:</u> ±1999 points ±9999 points	<u>Measure range:</u> from 0 to 3998 points from 0 to 19998 points

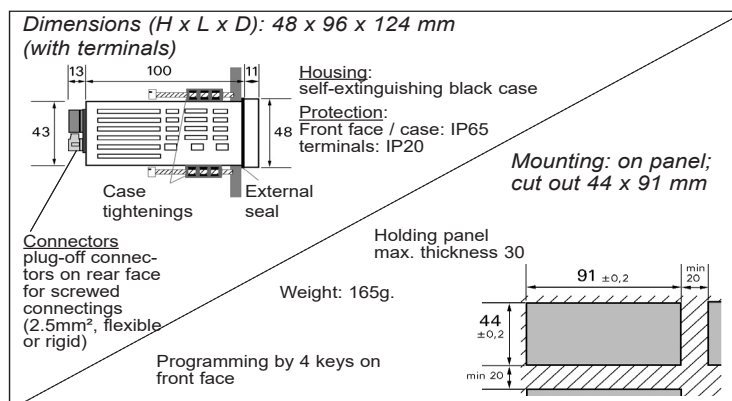
Description

Rejection rate:

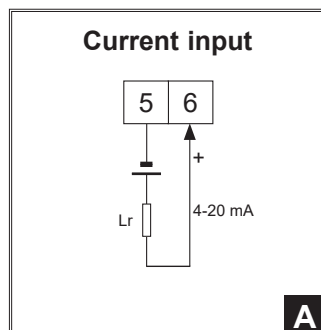
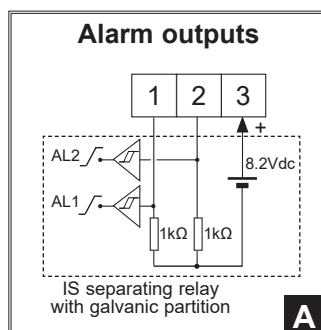
Mode common: 115dB
Mode series: 60dB 50/60Hz

Environment:

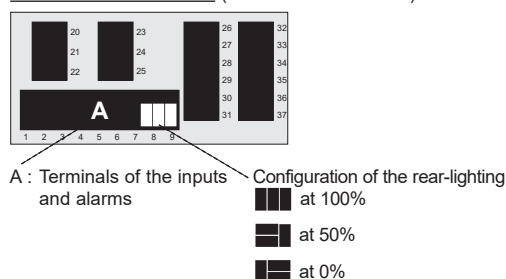
- Operating temperature: -20 to +60°C.
- Storage temperature: -30 to +80°C.
- Relative dampness: 80% annual average.
-  marking
- Conform with standards IEC 61000-6-4 on rejections and IEC 61000-6-2 on immunity (in industrial environment) IEC 61000-4-2 level 3, IEC 61000-4-3 level 3, IEC 61000-4-4 level 4, IEC 61000-4-6 level 3.



Wiring



Location of the terminals (view of case rear side)



This appliance is dedicated to industrial applications. It has to be mounted in an electrical switchbox, or equivalent.

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