LOOP INDICATORS

4 digit display - Intrinsic safety

- ATEX - CE

DIP SI 300 / 400

♦ *The DIP SI is declined into 2 display versions:*
DIP SI 300 ± 2000 points
DIP SI 400 ± 10000 points

***Features**:*
- LCD 2 wire indicator
- Back lighting configurable
- Configuration in front face without current generator
- 2 programmable alarm setpoints (option R)
- IP65 front face protection

They are supplied by the 4/20 mA loop and they can be placed in hazardous areas rated 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 DIP SI is a fully programmable digital panel meter. Is is equipped 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 (back lighting switched off).
Inverse 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.

♦ **Display**:
- LCD display, 16mm indicator, back lit.
- Display scale and positionning of the decimal point configurable by the user by 4 keys on the front face.
- Possibility to adjust the intensity of the back lighting (0-50-100%) by the placing of 3 jumpers located on the rear of the meter. Note that the voltage drop is proportional to the intensity of the back lighting.

Intensity of the back lighting	Max. voltage drop at 20mA
0%	< 1,5 Vdc
50%	< 6,5 Vdc
100%	< 10,5 Vdc

Input features

Name	Type	Accuracy (at +23°C)	Thermic drift	Measure range	Features
Process **DIP-SI 300** **DIP-SI 400**	DC current 4/20 mA	0,1% de l'étendue de mesure	<100ppm /°C	from 3.6 to 23 mA	Scale factor programmable. Sampling time : 400ms. Response time (0 to 90%): < 2s without alarms < 2.5s with alarms Dynamic of the input signal: 15 bits

Intrinsinc safety parameters

	Terminals	Ui (Vdc)	Ii (mAdc)	Pi (W)	Li (mH)	Ci (µF)
With alarms (otion 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

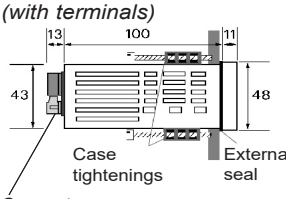
Name	Type	Features	
Alarm outputs R	R: 2 NAMUR type alarm outputs Mode setpoint programmable	Recording of alarms. Hysteresis programmable independently from 0 to 100% of the setpoint in the display unit. Time delay programmable independently from 0 to 25 sec.in 1 sec. increments Visualisation of the status on rear face Not insulated from the input	
		Display resolution:	Measure scale:
DIP-SI 300	± 2000 points (16mm)	±1999 points	from 0 to 3998 points
DIP-SI 400	± 10000 points (16mm)	±9999 points	from 0 to 19998 points

Description

Rejection rate:
Common mode: 115dB
Serial mode: 60dB 50/60Hz

Environment:
- Operating temperature: -20 to +60°C.
- Storage temperature: -30 to +80°C.
- Relative dampness: 80% annual average.
- CE marking
- Conform with standards IEC 61000-6-4 on emissions and IEC 61000-6-2; 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.

Dimensions (H x L x D): 48 x 96 x 124 mm (with terminals)



Housing: self-extinguishing black case

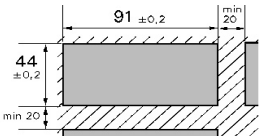
Protection: Front face: IP 65 Case / terminals: IP20

Mounting: on panel; cut out 44 x 91 mm

Connectors
Plug-off connectors on rear side for screwed connectings (2.5mm², flexible or rigid)

Holding panel max. thickness. 30

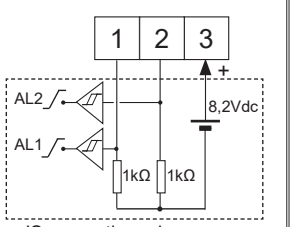
Weight: 165g.



Programming by 4 keys on the front face

Wiring

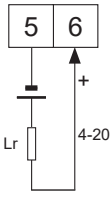
Alarm outputs



IS separating relay with galvanic partition

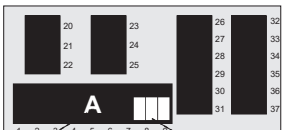
A

Current input



A

Location of the terminals (view of case rear side)



A : Terminals of the inputs and alarms

Configuration of the back lighting
- at 100%
- at 50%
- at 0%

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

ARDETEM®
RCS Lyon 444-429-476 - Printed in France.
e-mail : info@ardetem.com
http : //www.ardetem.com

Route de Brindas
Parc d'activité d'Arbora N°2
69510 SOUCIEU EN JARREST
FRANCE

Tél. : 33 (0)4 72 31 31 30
Fax. : 33 (0)4 72 31 31 31

Your representative