Pressure sensor display

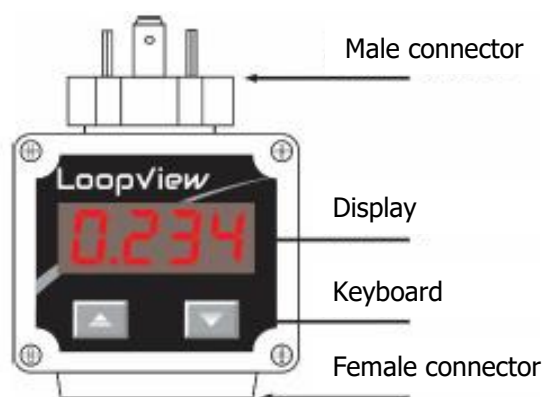*DIN connector display for pressure sensor LOOPVIEW*

Ref : 2839
Rev : A

DESCRIPTION

These pressure sensor displays can be mounted on all sensors with DIN EN 175301- 803-A connectors.

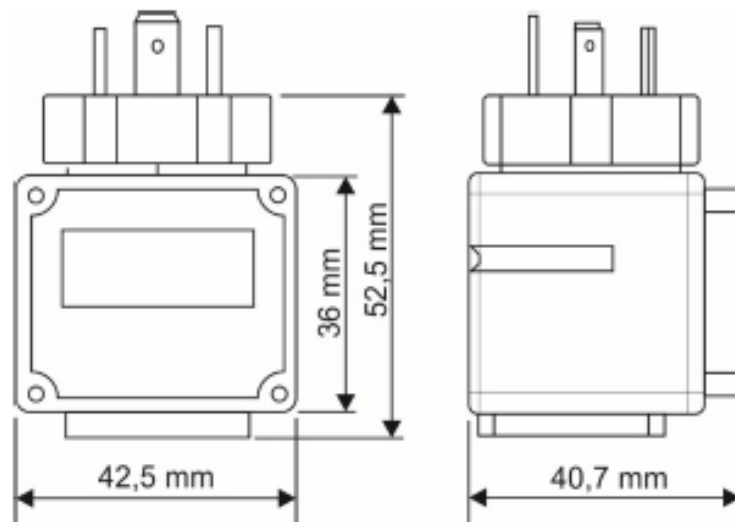They are powered directly by power loop 4... 20 mA.

Display: Displays the measured variable, configuration parameters, and their respective values/conditions.

UP and DOWN navigation keys: They allow you to change parameter values and access the configuration and calibration cycles of the indicator.
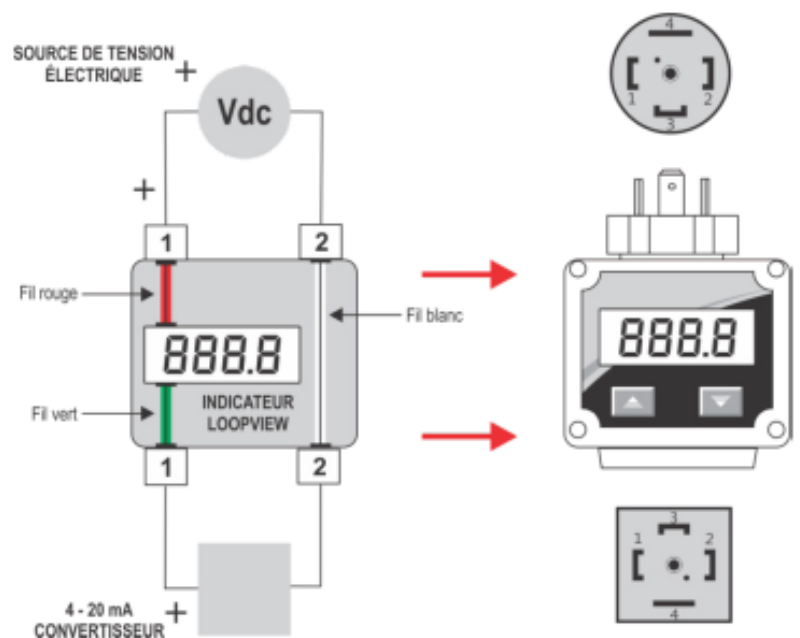
Assembly example:

DIMENSIONS / ELECTRICAL CONNECTIONS

The indicator has standard connectors EN 175301-803 (former DIN 43650) male and female, placed at the top and bottom respectively. It works without power, by current loop 4... 20mA.

It also has internal protection against reverse polarity of the supply voltage.

TECHNICAL CHARACTERISTICS

PARAMETERS	VALUES
Operating and storage temperature	-40 … +85 °C
Thermal coefficient	0.005% °C
Power supply	Power loop 4…20 mA / 60 mA max, 30 VDC max
Voltage drop	<10 mA : ………………..<5.4 V 10 to 12 mA : …………. < 3.9 V >12 mA : ………………..< 2.8 V
Electrical connection	DIN EN 175301-803 (DIN 43650 A shape)
Backup	Non-volatile EEPROM memory
Display	Red LEDs – 4 digits
Indication range	-1999 up to 9999 or 9999 up to -1999
Sampling rate	100 ms
Measurement accuracy	0.1% FS ± 1 digit
Housing materials	ABS (polyurethane seal)
Dimensions	42.5 x 52.5 x 40.7 mm
Weight	~54 g
Protection	IP65, NEMA4X
Certification	CE

FEATURES

The LOOPVIEW has different features:

- Adjustable indication range
- Increasing or decreasing indication
- Setting the decimal place
- Offset adjustment
- Adjustable digital filter
- Display alarms: minimum, maximum, or out-of-range value
- Factory Calibration Recovery
- Configuration protection with passcode

When the UP and DOWN keys are pressed simultaneously, the indicator configuration settings are presented in sequence. When arriving at the desired parameter, we must release the keys.
When the keys are released, the desired parameter will be displayed alternately with its current value.
The UP + DOWN keys change the current value of the parameter. To save the new set value, simply press the UP and DOWN keys simultaneously, returning to the parameter sequence.

CONFIGURATION SETTINGS

dP.Po	**Decimal.** It allows you to set the position of the decimal place in the indication range.
in.LL	**Lower limit of the indication range**. It determines the value for the indication corresponding to the current value 4 mA.
in.HL	**Upper limit of the indication range.** It determines the value for the indication corresponding to the current value 20 mA.
OFFS	**Offset**. This resource offers the possibility to modify or correct the PV value presented by the indicator.
F ILt	**Filter**. This parameter defines a filter value to be applied to the measured value to improve the Measured signal stability. It is configurable by values from 0 to 9 (value in seconds of the filter of order 1).

Alarm function.
The **LoopView** offers the ALARM function to signal that critical process values have been reached. When a PV value defined as critical is measured by the indicator, the screen displays the PV value alternately with the message **AL**.
The process-critical PV value is defined in the parameter **SPAL**.
Three alarm functions are available:

FuAL

Lo	The display shall indicate when the PV value is less than the defined critical value (**SPAL**).
H I	The display must indicate when the PV value is GREATER than the defined critical value (**SPAL**).
iErr	The display must indicate when the PV value is outside the defined measurement range.
oFF	The indication of the critical value is inactive.

SPAL	**Setpoint alarm.** It allows to define the value of PV critical to the process, used in the alarm indication. This setting is not displayed when the **Alarm function** is set to **oFF** or **iErr**.
PASS	**Access code**. It allows you to enter the access code. This allows you to change the settings according to the protection configuration defined in the **Protection** parameter**.** Without entering the passcode, the settings can only be displayed.

Enable calibration.
It allows to calibrate the indicator by making available the parameters for this procedure (**inLC**, **inHC** et **rStr**).

CAL Ib

no	Inactive calibration.
YES	Active calibration.

If calibration is not active, settings for this procedure are not displayed

inLC	**Lower calibration value.** Insert lower calibration value. This setting is not displayed when the **Enable Calibration** feature is set to **no**.
inHC	**Higher calibration value.** Insert top calibration value. This setting is not displayed when the **Enable Calibration** feature is set to **no**.

Calibration recovery.
It allows you to retrieve the last calibration performed.

rStr

no	Do not retrieve the last calibration
YES	Yes, retrieve the last calibration.

This setting is not displayed when the **Enable Calibration** feature is set to **no**.

Prot	**Configuration Protection**. It allows you to define the protection level of the indicator.	
	1	It only protects special settings.
	2	It protects all settings.
PAS.C	**Set a new passcode.** It allows you to define a new access code, always different from zero.	
Sn.H	**Indicator serial number (top) ***. TOP part of indicator serial number	
Sn.L	**Indicator serial number (bottom) ***. LOWER part of indicator serial number.	

* Serial Number Dialing : 8888 8888 (Sn.H , Sn.L)

CONTACT

MESUREX
13 Rue des Corroyés
78730 Saint Arnoult en Yvelines (France)

Tel :   +33 (0) 1 30 41 23 62
Mail : mesurex@mesurex.fr
Web : www.mesurex.fr