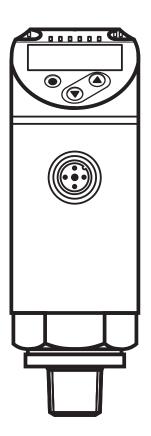
# **Propense**



Operating instructions Electronic digital pressure sensor

**EPS25-XXXX-1001** 



AutomationDirect 3505 HutchinsonRoad Cumming, GA 30040







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# 1 Preliminary note

# 1.1 Symbols used

- Instructions
- > Reaction, result
- [...] Designation of keys, buttons or indications
- → Cross-reference
- Important note

  Non-compliance may result in malfunction or interference
- Information Supplementary note

# 2 Safety instructions

- Please read this document prior to set-up of the unit. Ensure that the product is suitable for your application without any restrictions.
- If the operating instructions or the technical data are not adhered to, personal injury and/or damage to property can occur.
- Check the compatibility of the product materials with the media to be measured in all applications.
- Correct condition of the device for the operating time can only be guaranteed if the device is only used for media to which the wetted materials are sufficiently resistant → 3.1 Applications.
- If the devices are used in gas applications with pressures > 362 psig (25 bar) the notes in chapter 3.1 for devices with the marking \*\*), must be absolutely observed!
- For the scope of validity cULus:
  - The device shall be supplied from an isolating transformer having a secondary Listed fuse rated either
  - a) max 5 amps for voltages 0~20 Vrms (0~28.3 Vp) or
  - b) 100/Vp for voltages of 20~30 Vrms (28.3~42.4 Vp).

The device shall be connected only by using any Listed (CYJV/7) or R/C (CYJV2/8) cord in respect of Condition of Acceptability, having suitable ratings



The responsibility whether the measurement device is suitable for the respective application lies with the operator. The manufacturer assumes no liability for consequences of misuse by the operator. Improper installation and use of the devices result in a loss of the warranty claims.

# 3 Functions and features

The device monitors the system pressure of machines and installations.

# 3.1 Applications

Type of pressure: Relative pressure

		Measuring Range	Proof Pressure*	Bursting Pressure
1001	psig	05800	11580	24650
EPS25-5800-1001	bar	0400	800	1700
EPS	MPa	040	80	170
1001	psig	03625	7250	17400
EPS25-3620-1001	bar	0250	500	1200
EPS	MPa	025	50	120
001**	psig	01450	4350	9400
EPS25-1450-1001**	bar	0100	300	650
EPS2	МРа	010	30	65

		Measuring Range	Proof Pressure*	Bursting Pressure
)01**	psig	-14.5362.5	2175	5075
EPS25-360-1001**	bar	-125	150	350
EPS,	MPa	-0.12.5	15	35
001**	psig	-14.6145	1087	2175
EPS25-V145-1001**	bar	-110	75	150
EPS2	MPa	-0.11	7.5	15
001	psig	-1.836.25	290	725
EPS25-36-1001	bar	-0.1252.5	20	50
EP	кРа	-12.5250	2000	5000
	psig	-0.7214.5	145	450
EPS25-14-1001	inH20	-20401.5	4000	12040
EPS25-	mbar	-501000	10000	30000
	kPa	-5100	1000	3000

		Measuring Range	Proof Pressure*	Bursting Pressure
	psig	-14.514.5	290	725
001	inH20	-402402	8030	20070
EPS25-V14-1001	mbar	-10001000	20000	50000
EPS	кРа	-100100	2000	5000
	inHg	-29.529.5	590	1480
	mmWS	-1252550	102000	306000
0WC-100	inH20	-5100.4	4000	12000
EPS25-100WC-1001	mbar	-12.5250	10000	30000
	кРа	-1.2525	1000	3000

<sup>\*)</sup> With static overload pressure or max. 100 million pressure cycles. \*\*) For gas applications 362 psig (25 bar) maximum pressure!

MPa = (measured value in bar) ÷ 10 kPa = (measured value in bar) x 100

Avoid static and dynamic overpressure exceeding the proof pressure (specified maximum permissible pressure) by taking appropriate measures.

The indicated bursting pressure must not be exceeded.

Even if the bursting pressure is exceeded only for a short time, the unit may be destroyed. ATTENTION: Risk of injury!

The units are vacuum resistant. EPS25-100WC-1001 can only resistant vacuum of 300 mbar (120inH2O).

Pressure Equipment Directive (PED): The units comply with the Pressure Equipment Directive and are designed and manufactured for group 2 fluids (Non-Hazardous, Nonflammable, Non-Oxidizing) in accordance with the sound engineering practice.

# 4 Function

- The unit displays the current system pressure.
- It generates output signals according to the operating mode and the parameter setting.

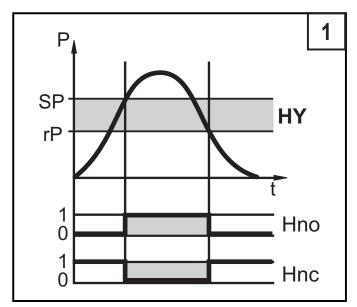
# 4.1 Parameter setting, evaluation

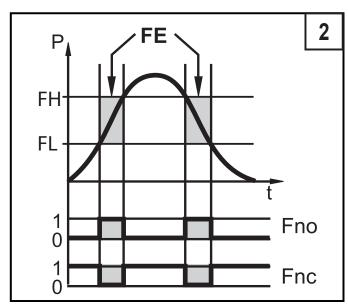
OUT1 (pin 4)	Switching signal for system pressure limit value
OUT2 (pin 2)	<ul> <li>Switching signal for system pressure limit value</li> <li>Analogue signal 420 mA / 010 V</li> </ul>

#### 4.2 Switching function

OUTx changes its switching status if it is above or below the set switching limits (SPx, rPx). The following switching functions can be selected:

- Hysteresis function / normally open: [ou1/ou2] = [Hno] (→ fig. 1).
- Hysteresis function / normally closed: [ou1/ou2] = [Hnc] (→ fig. 1).
   First the set point (SPx) is set, then the reset point (rPx).
   The hysteresis defined remains even if SPx is changed again.
- Window function / normally open: [ou1/ou2] = [Fno] (→ fig. 2).
- Window function / normally closed: [ou1/ou2] = [Fnc] (→ fig. 2).
   The width of the window can be set by means of the difference between FHx and FLx. FHx = upper value, FLx = lower value.





P = system pressure; HY = hysteresis; FE = window

When set to the window function the upper and lower limit values have a fixed hysteresis of 0.25 % of the final value of the measuring span.

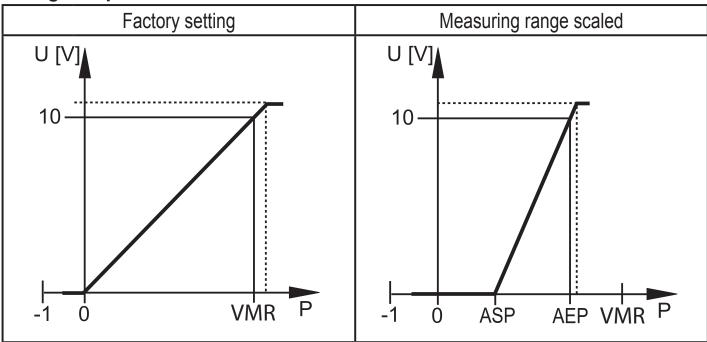
# 4.3 Analog function

OUT2 is an analog output:

- [ou2] defines whether the set measuring range is provided as
   4...20 mA ([ou2]= [I]) or as 0...10 V ([ou2] = [U]).
- Analog start point [ASP2] determines at which measured value the output signal is 4 mA or 0 V.
- Analog end point [AEP2] determines at which measured value the output signal is 20 mA or 10 V.

Minimum distance between [ASP2] and [AEP2] = 20 % of the measuring span.

# Voltage output 0...10 V:



P = System pressure

VMR = Final value of the measuring range

ASP = Analog start point [ASP2]

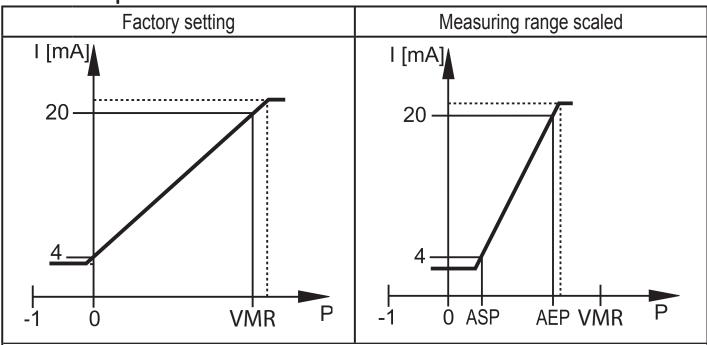
AEP = Analog end point [AEP2]

In the measuring range of the respective unit the output signal is between 0 and 10 V.

It is also indicated:

- System pressure above [AEP2]: 10...10.3 V
- Fault indication according to Namur: 11 V

#### Current output 4...20 mA



P = System pressure

VMR = Final value of the measuring range

ASP = Analog start point [ASP2]

AEP= Analog end point [AEP2]

In the measuring range, the output signal is between 4 and 20 mA.

It is also indicated:

- System pressure above [AEP2]: 20...20.5 mA
- System pressure below [ASP2]: 4...3.8 mA
- Fault indication according to Namur: 21.5 mA.

#### 5 Installation

- Before installing and removing the unit: make sure that no pressure is applied to the system.
- ► Insert the unit in a ¼ 18 NPT process connection.
- ► Liquid or paste type thread sealer is not recommend.

  If thread sealer is required use a tape type that is compatible with the media.

The sensor housing can be rotated by 345° with regard to the process connection.

Do not rotate past the end stop!

#### 6 Electrical connection

The unit must be connected by a qualified electrician.

The national and international regulations for the installation of electrical equipment must be adhered to.

Voltage supply according to EN 50178, SELV, PELV.

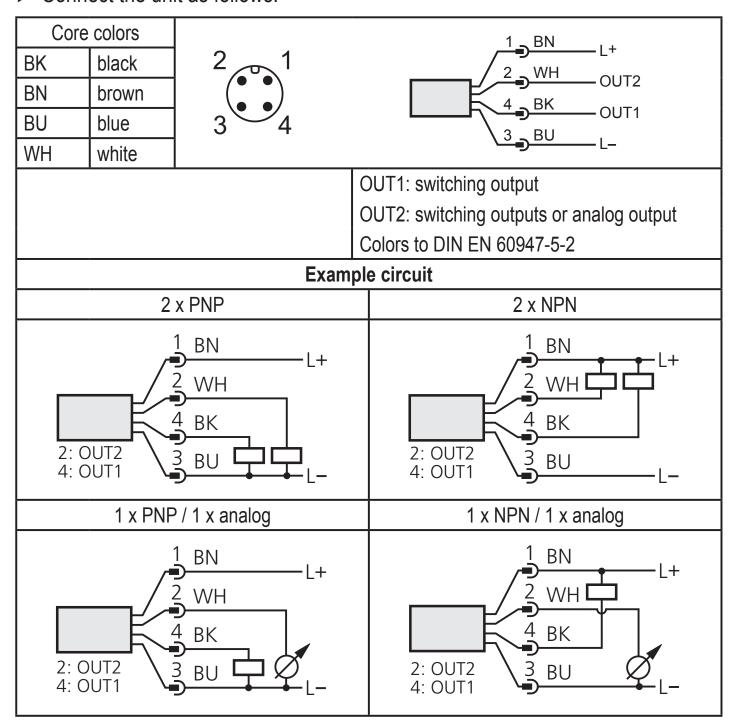
For the scope of validity cULus:

The device shall be supplied from an isolating transformer having a secondary Listed fuse rated either

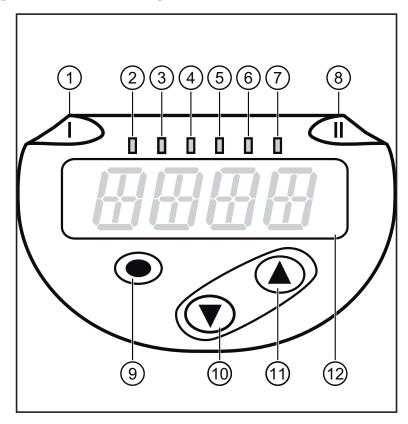
- a) max 5 amps for voltages 0~20 Vrms (0~28.3 Vp) or
- b) 100/Vp for voltages of 20~30 Vrms (28.3~42.4 Vp).

The device shall be connected only by using any Listed (CYJV/7) or R/C (CYJV2/8) cord in respect of Condition of Acceptability, having suitable ratings.

- ▶ Disconnect power.
- ► Connect the unit as follows:



# 7 Operating and display elements



1 to 8: indicator LEDs		
LED 1	Switching status OUT1 (lights when output 1 is switched).	
LED 8	Switching status OUT2 (lights when output 2 is switched).	
LEDs 2 - 7 System pressure in the indicated unit of measurement		

#### 9: Enter button [●]

- Selection of the parameters and acknowledgement of the parameter values.

# 10 to 11: Arrow keys up [▲] and down [▼]

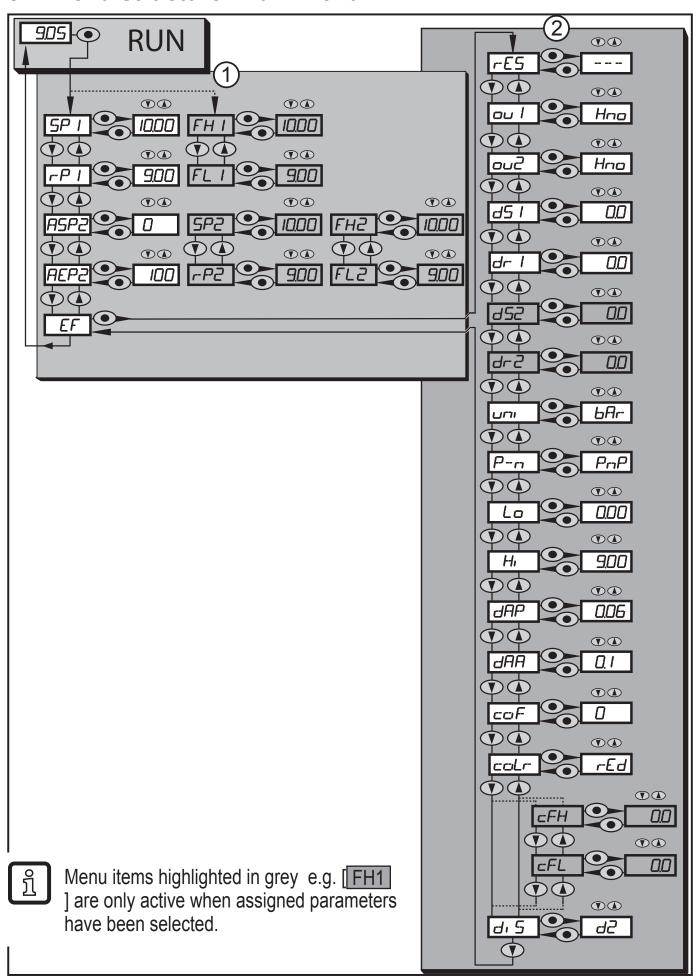
- Setting of the parameter values (scrolling by holding pressed; incremental by pressing once).

# 12: Alphanumeric display, 4 digits

- Display of the current system pressure.
- Indication of the parameters and parameter values.

#### 8 Menu

#### 8.1 Menu structure: main menu



# 8.2 Explanation of the menu

# 8.2.1 Explanation of the menu level 1

SPx / rPx	Upper / lower limit value for system pressure at which OUTx switches with hysteresis setting. Prerequisite: OUTx setting is [Hno] or [Hnc].
FHx / FLx	Upper / lower limit value for system pressure at which OUTx switches with window setting. Prerequisite: OUTx setting is [Fno] or [Fnc].
ASP2	Analog start point for system pressure: measured value at which 4 mA / 0 V are provided. Prerequisite: OUT2 setting is [I] or [U].
AEP2	Analog end point for system pressure: measured value at which 20 mA / 10 V are provided. Prerequisite: OUT2 setting is [I] or [U].
EF	Extended functions / opening of menu level 2.

# 8.2.2 Explanation of the menu level 2

·	
rES	Restore factory setting.
ou1	Output function for OUT1:  • Switching signal for the pressure limit values: hysteresis function [H] or window function [F], either normally open [. no] or normally closed [. nc].
<ul> <li>ou2</li> <li>Output function for OUT2:</li> <li>Switching signal for the pressure limit values: hysteresis function [H] window function [F], either normally open [. no] or normally closed []</li> <li>Analog signal for the current system pressure: 420 mA [I] or 010 V</li> </ul>	
dS1 / dS2	Switching delay for OUT1 / OUT2.
dr1 / dr2	Switch-off delay for OUT1 / OUT2.
uni	Standard unit of measurement for system pressure (display): [PSI] / [bAr] / [mbar] / [MPA] / [kPA] / [inHG] / [iH2O] / [mmWS] .
P-n	Output logic: pnp / npn.
Lo	Minimum value memory for system pressure.
Hi	Maximum value memory for system pressure.
dAP	Damping of the switch point.
dAA	Damping of the analog output. Prerequisite: OUT2 setting is [I] or [U].
coF	Zero-point calibration.
coLr	Assignment of the display colors "red" and "green" within the measuring range.
cFH / cFL	Upper / lower value for color change. Parameter only active after selection of a freely definable color window in the coLr parameter: [r-cF] or [G-cF].
diS	Update rate and orientation of the display.

# 9 Parameter setting

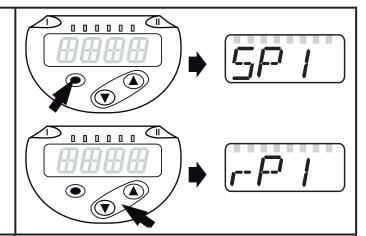
During parameter setting the unit remains in the operating mode. It continues to monitor with the existing parameters until the parameter setting has been completed.

#### 9.1 Parameter setting in general

3 steps must be taken for each parameter setting:

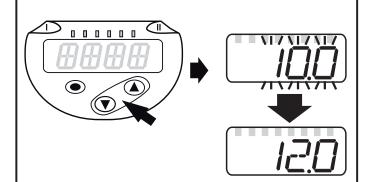
#### 1 Select parameter

- ▶ Press [•] to get to the menu.
- Press [▲] or [▼] until the requested parameter is displayed.



#### 2 | Set parameter value

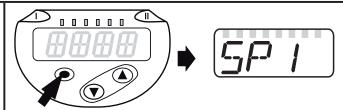
- ▶ Press [•] to edit the selected parameter.
- Press [▲] or [▼] for min. 1 s.
- After 1 s: setting value is changed: incrementally by pressing the button once or continuously by keeping the button pressed.



Numerical values are incremented continuously with [▲] or decremented with [▼].

#### 3 Acknowledge parameter value

- ► Briefly press [•].
- > The parameter is displayed again. The new setting value is saved.



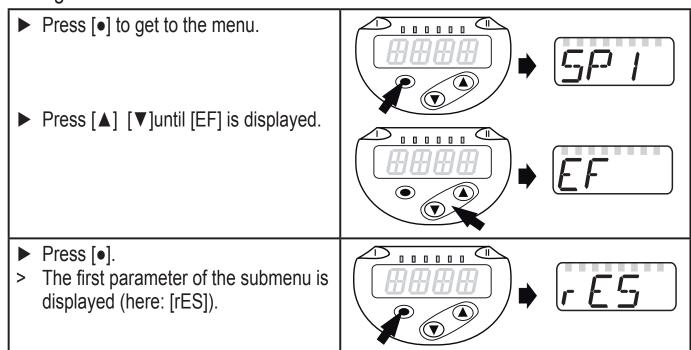
#### Set other parameters

Press [▲] or [▼] until the requested parameter is displayed.

#### Finish parameter setting

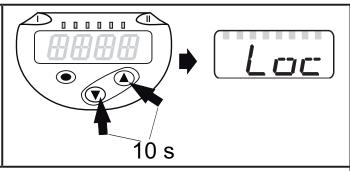
- Press [▲] or [▼] several times until the current measured value is displayed or wait for 30 s.
- > The unit returns to the process value display.

• Change from menu level 1 to menu level 2:



Locking / unlocking
 The unit can be locked electronically to prevent unintentional settings.

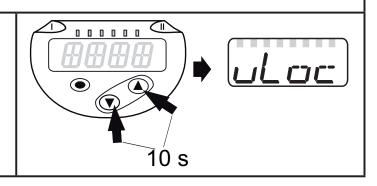
- Make sure that the unit is in the normal operating mode.
- Press [▲] + [▼] simultaneously for 10 s.
- > [Loc] is displayed.



During operation: [Loc] is briefly displayed if you try to change parameter values.

For unlocking:

- ► Make sure that the unit is in the normal operating mode.
- Press [▲] + [▼] simultaneously for 10 s.
- > [uLoc] is displayed.



On delivery: not locked.

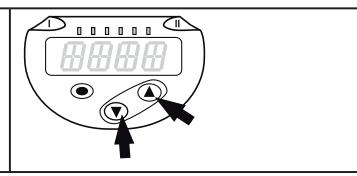
Timeout:

If no button is pressed for 30 s during parameter setting, the unit returns to the operating mode with unchanged values.

Exit a parameter without adopting the settings

To exit a parameter without adopting the settings:

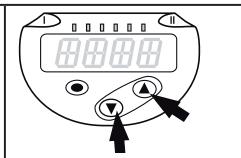
- Press [▲] + [▼] simultaneously.
- > Return to the menu level.



# Leaving the menu level

To leave the menu level:

- ► Press [▲] + [▼] simultaneously.
- > Menu level 2 changes to level 1 or level 1 changes to display.



# 9.2 Configure display (optional)

<ul> <li>▶ Select [Uni] and set the unit of measurement: <ul> <li>[PSI],</li> <li>[bAr], [mbAr],</li> <li>[MPA], [kPA],</li> <li>[inHG],</li> <li>[iH2O],</li> <li>[mmWS]</li> </ul> </li> </ul>	ורזו
The selectable units of measurement depend on the respective unit.	
<ul> <li>Select [diS] and set the update rate and orientation of the display:         <ul> <li>[d1]: update of the measured values every 50 ms.</li> <li>[d2]: update of the measured values every 200 ms.</li> <li>[d3]: update of the measured values every 600 ms.</li> <li>[rd1], [rd2], [rd3]: display as for d1, d2, d3; rotated by 180°.</li> <li>[OFF ] = The display is switched off in the operating mode. When one of the buttons is pressed, the current measured value is displayed for 30 s. The LEDs remain active even if the display is deactivated.</li> </ul> </li> </ul>	
Even with unsteady pressure characteristics [d1] provides optimum readability; the corresponding algorithms are stored.	

# 9.3 Set output signals

# 9.3.1 Set output functions

•	Select [ou1] and set the switching function: - [Hno] = hysteresis function/NO, - [Hnc] = hysteresis function/NC, - [Fno] = window function/NO, - [Fnc] = window function/NC.	ou l
•	Select [OU2] and set the analogue function:  - [Hno] = hysteresis function/NO,  - [Hnc] = hysteresis function/NC,  - [Fno] = window function/NO,  - [Fnc] = window function/NC.  - [I] = current signal 420 mA,  - [U] = voltage signal 010 V.	002

# 9.3.2 Define switching limits for the hysteresis function

<ul> <li>[ou1] / [ou2] must be set as [Hno] or [Hnc].</li> <li>Select [SPx] and set the value at which the output is set.</li> </ul>	5P2
➤ Select [rPx] and set the value at which the output resets. [rPx] is always smaller than [SPx]. The unit only accepts values which are lower than the value for [SPx].	P-5

# 9.3.3 Define switching limits for the window function

<ul> <li>[ou1] /[ou2] must be set as [Fno] or [Fnc].</li> <li>Select [FHx] and set the upper limit value.</li> </ul>	FH I
► Select [FLx] and set the lower limit value.  [FLx] is always lower than [FHx]. The unit only accepts values which are lower than the value for [FHx].	FL 1

# 9.3.4 Scaling of the analogue value

	Select [ASP2] and set the value at which 4 mA / 0 V is provided.	ASP2
•	Select [AEP2] and set the value at which 20 mA / 10 V is provided.  Minimum distance between [ASP2] and [AEP2] = 20 % of the measuring span (scaling factor 5).	AEP2

# 9.4 User settings (optional)

9.4.1 Set delay for the switching outputs	
<ul> <li>[dS1] / [dS2] = switching delay for OUT1 / OUT2.</li> <li>[dr1] / [dr2] = reset delay for OUT1 / OUT2.</li> <li>▶ Select [dS1], [dS2], [dr1] or [dr2] and set a value between 0 and 50 s (at 0 the delay time is not active).</li> </ul>	d5 1 dr 1 d52 dr2
9.4.2 Set output logic for the switching outputs	
► Select [P-n] and set [PnP] or [nPn].	P-n
9.4.3 Set damping for the switching signal	
► Select [dAP] and set the damping constant in seconds (value т: 63 %); setting range 0.0004.000 s.  Damping affects [dAP] the switch point and the display.	dAP
9.4.4 Damping for analog output	
► Select [dAA] and set the damping constant (rise time 1090 %) in seconds; setting range 0.0004.000 s.	dAA
Damping [dAA] only affects the analog output	
9.4.5 Zero-point calibration	
➤ Select [coF] and set a value between -5 % and 5 % of the final value of the measuring range (if EPS25-V14-1001 ±5 % of the measuring span). The internal measured value "0" is shifted by this value.	cof
9.4.6 Read min/max values for the system pressure	
Select [HI] or [Lo] and briefly press [●]. [HI] = maximum value, [Lo] = minimum value.	<i> -</i> - ,
Delete memory:	
<ul><li>Select [HI] or [Lo].</li><li>Press and hold [▲] or [▼] until [] is displayed.</li></ul>	
<ul> <li>▶ Briefly press [•].</li> </ul>	

# 9.4.7 Reset all parameters to factory setting

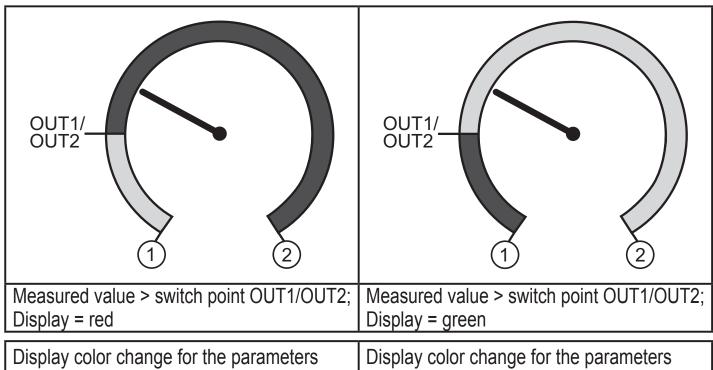
➤ Select [rES].	r-ES
► Press [•].	' '
Press and hold [▲] or [▼] until [] is displayed.	
► Briefly press [•].	
We recommend writing down your own settings before carrying out a reset	
(→ 12 Factory setting).	

# 9.4.8 Set colour change of the display

► Select [col.r	and set the function:	,
	display color red (independent of the measured value).	calr
	display color green (independent of the measured value).	
	display color red when OUT1 switches.	
	display color green when OUT1 switches.	
	display color red when OUT2 switches ([ou2] = [Hxx] / [Fxx]).	
	display color green when OUT2 switches ([ou2] = [Hxx] / [Fxx]).	
- [r-12] =	display color red when the measured value is between the limit values of OUT1 and OUT2 ([ou2] = [Hxx] / [Fxx]).	
- [G-12] =	display color green when the measured value is between the limit values of OUT1 and OUT2 ([ou2] = [Hxx] / [Fxx]).	
- [r-cF] =	display color red when the measured value is between the freely definable limit values [cFH]*) and [cFL]*).	
- [G-cF] =	display color green when the measured value is between the freely definable limit values [cFH]*) und [cFL]*)	
	ers [cFL] and [cFH] can only be selected in the menu tree r [G-cF] were activated.	
	] and set the upper limit value.	cFH
	ole when [r-cF] or [G-cF] were activated).	- ' ' '
	range corresponds to the measuring range and its minimum	
limit is [cFL]		
	and set the lower limit value	CFL
\ , , , .	ole when [r-cF] or [G-cF] were activated).	- ' -
> The setting limit is [cFH]	range corresponds to the measuring range and its maximum ].	

# 9.4.9 Graphical depiction of the color change of the display

Display color change for the parameters	Display color change for the parameters
[r1ou] / [r2ou], mode hysteresis function	[G1ou] / [G2ou], mode hysteresis function



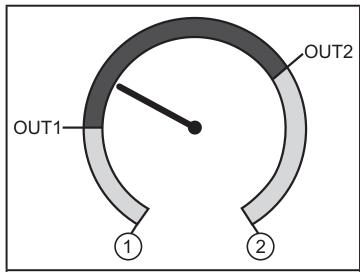
Display color change for the parameters [r1ou] / [r2ou], mode window function	Display color change for the parameters [G1ou] / [G2ou], mode window function	
FL1/ FL2 1	FL1/ FL2 1	
Measured value between FL1/FL2 and FH1/FH2; Display = red	Measured value between FL1/FL2 and FH1/FH2; Display = green	

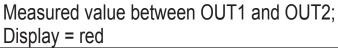
	Color change display green
	Color change display red
1	Initial value of the measuring range
2	Final value of the measuring range

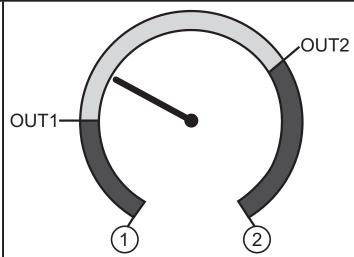
Final value of the measuring range

Representation [r-12] / [G-12] only possible when [ou2] = switching output.

Display color change for the parameters	Display color change for the parameters
[r-12], mode hysteresis function	[G-12], mode hysteresis function

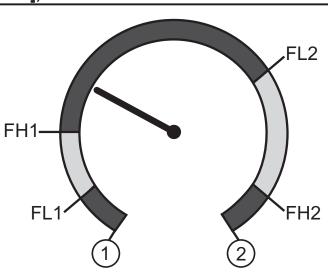






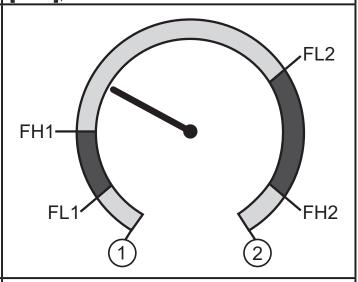
Measured value between OUT1 and OUT2; Display = green





Measured value outside FL1...FH1 and FL2...FH2; Display = red

# Display color change for the parameters **[G-12]**, mode **window function**

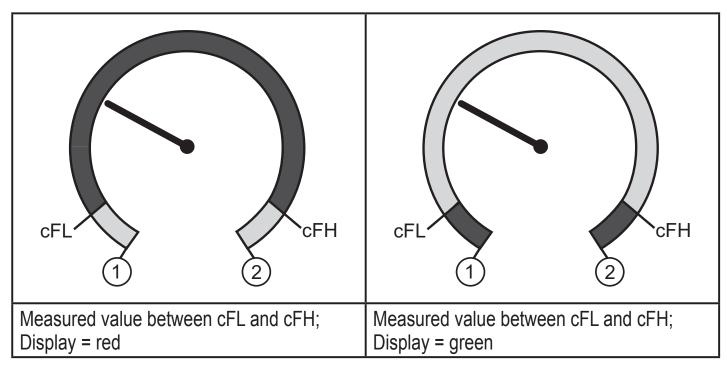


Measured value outside FL1...FH1 and FL2...FH2; Display = green

	Color change display green
	Color change display red
1	Initial value of the measuring range
2	Final value of the measuring range
FL1 / FL2	Lower limit value window function outputs OUT1 / OUT2
FH1 / FH2	Upper limit value window function outputs OUT1 / OUT2

Display color change with parameter [r-cF]
independent of OUT1.

Display color change with parameter **[G-cF]** independent of OUT1.



	Color change display green
	Color change display red
1	Initial value of the measuring range
2	Final value of the measuring range
cFL	Lower limit value (independent of the output function)
cFH	Upper limit value (independent of the output function)

# 10 Operation

After power on, the unit is in the Run mode (= normal operating mode). It carries out its measurement and evaluation functions and provides output signals according to the set parameters.

Operation indication  $\rightarrow$  7 Operating and display elements.

#### 10.1 Read set parameters

- ► Press [•].
- Press [▲] or [▼] until the requested parameter is displayed.
- ▶ Briefly press [•].
- > The unit displays the corresponding parameter value for approx. 30 s; then it changes to the process value display.

# 10.2 Self-diagnosis / error indications

The unit has many self-diagnostic options.

- It monitors itself automatically during operation.
- Warnings and faults are displayed (even if the display is deactivated).

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Display	Status LED OUT1	Status LED OUT2	Fault / warning	Corrective measures
none			Supply voltage too low.	Check / correct the supply voltage.
SC flashes	flashes	flashes	Excessive current at switching outputs OUT1 and OUT2 **).	Check switching outputs for short-circuit or excessive current; remove the fault.
SC1 flashes	flashes		Excessive current at switching output OUT1 **).	Check switching output OUT1 for short-circuit or excessive current; remove the fault.
SC2 flashes		flashes	Excessive current at switching output OUT2 **).	Check switching output OUT2 for short-circuit or excessive current; remove the fault.
Loc			Parameter setting locked via pushbuttons	► Unlock buttons → 9.1 Parameter setting in general →"Locking / unlocking".
OL			Process value too high (measuring range exceeded).	Check / reduce system pressure / select unit with corresponding measuring range.
UL			Process value too low (value below measuring range).	Check / increase system pressure / select unit with corresponding measuring range.
Err flashes			Internal fault / malfunction.	► Contact the manufacturer.

<sup>\*\*)</sup> The respective output remains deactivated as long as the excessive current / short circuit continues.

# 11 Technical data and scale drawing

# 11.1 Setting ranges

		SP		rP		ASP2		AEP2		cFH		cFL		ΔΡ
		min	max	min	max	min	max	min	max	min	max	min	max	ΔΡ
EPS25-5800-1001	psig	40	5800	10	5780	0	4640	1160	5800	20	5800	0	5780	10
	bar	2.5	400	1	398.5	0	320	80	400	1.5	400	0	398.5	0.5
	MPa	0.25	40	0.1	39.85	0	32	8	40	0.15	40	0.0	39.85	0.05
1001	psig	25	3625	10	3610	0	2900	725	3625	15	3625	0	3610	5
3620-	bar	1.5	250	0.5	249	0	200	50	250	1	250	0	249	0.5
EPS25-3620-1001	MPa	0.15	25	0.05	24.9	0	20	5	25	0.1	25	0.0	24.9	0.05
1001	psgi	10	1450	4	1444	0	1160	290	1450	6	1450	0	1444	2
1450-	bar	0.6	100	0.2	99.6	0	80	20	100	0.4	100	0	99.6	0.2
EPS25-1450-1001	MPa	0.06	10	0.02	9.96	0	8	2	10	0.04	10	0	9.96	0.02
1001	psig	-12	362.5	-13.5	361	-14.5	290	58	362.5	-13	362.5	-14.5	361	0.5
-360-	bar	-0.85	25	-0.95	24.9	-1	20	4	25	-0.9	25	-1	24.9	0.05
EPS25-360-1	MPa	-0.085	2.5	-0.095	2.49	-0.1	2	0.4	2.5	-0.09	2.5	-0.1	2.49	0.005
1001	psig	-13.6	145	-14.2	144.4	-14.6	116	14.6	145	-13.8	145	-14.6	144.4	0.2
V145-	bar	-0.94	10	-0.98	9.96	-1	8	1	10	-0.96	10	-1	9.96	0.02
EPS25-V145-1001	MPa	-0.094	1	-0.098	0.996	-0.1	0.8	0.1	1	-0.096	1	-0.1	0.996	0.002

 $\Delta P$  = in steps of

SP		Р	rP		ASP2		AEP2		cFH		cFL		۸۵	
		min	max	min	max	min	max	min	max	min	max	min	max	ΔΡ
EPS25-36-1001	psig	-1.6	36.25	-1.75	36.1	-1.8	29	5.45	36.25	-1.65	36.25	-1.8	36.1	0.05
	bar	-0.11	2.5	-0.12	2.49	-0.125	2	0.375	2.5	-0.115	2.5	-0.125	2.49	0.005
	кРа	-11	250	-12	249	-12.5	200	37.5	250	-11.5	250	-12.5	249	0.5
	psig	-0.64	14.5	-0.7	14.44	-0.72	11.6	2.18	14.5	-0.66	14.5	-0.72	14.44	0.02
EPS25-14-1001	mbar	-44	1000	-48	996	-50	800	150	1000	-46	1000	-50	996	2
PS25-	кРа	-4.4	100	-4.8	99.6	-5	80	15	100	-4.6	100	-5	99.6	0.2
L	inH20	-17.5	401.5	-19	400	-20	321	60.5	401.5	-18.5	401.5	-20	400	0.5
	psig	-14.3	14.5	-14.45	14.4	-14.5	8.7	-8.7	14.5	-14.4	14.5	-14.5	14.4	0.05
1001	mbar	-985	1000	-995	990	-1000	600	-600	1000	-990	1000	-1000	990	5
5-V14-1001	кРа	-98.5	100	-99.5	99	-100	60	-60	100	-99	100	-100	99	0.5
EPS28	inH20	-396	402	-400	398	-402	240	-240	402	-398	402	-402	398	2
	inHg	-29.2	29.5	-29.4	29.3	-29.5	17.7	-17.7	29.5	-29.3	29.5	-29.5	29.3	0.1
100	inH20	-4.4	100.4	-4.8	100	-5	80.2	15	100.4	-4.6	100.4	-5	100	0.2
WC-10	mbar	-11	250	-12	249	-12.5	200	37.5	250	-11.5	250	-12.5	249	0.5
EPS25-100WC-1001	mmWS	-110	2550	-120	2540	-125	2040	385	2550	-115	2550	-125	2540	5
ш	кРа	-1.1	25	-1.2	24.9	-1.25	20	3.75	25	-1.15	25	-1.25	24.9	0.05

 $\Delta P = in steps of$ 

#### 11.2 Further technical data

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Further technical data and scale drawing at:

www.automationdirect.com

# 12 Factory setting

	Factory setting	User setting
SP1	25% VMR***	
rP1	23% VMR***	
ou1	Hno	
ou2		
SP2	75% VMR***	
rP2	73% VMR***	
ASP2	0 (EPS24-V14-1001: -14.4 psig)	
AEP2	100% VMR *	
coF	0	
dSx	0.0	
drx	0.0	
P-n	PnP	
dAP	0.06	
dAA	0.1	
diS	d2	
uni	PSI / IH2O	
coLr	rEd	
cFH	VMR*	
cFL	MAW**	

<sup>\* =</sup> Final value of the measuring range (VMR)

More information at www.automationdirect.com

<sup>\*\* =</sup> Initial value of the measuring range (MAW)

<sup>\*\*\* =</sup> The indicated percentage of the final value of the measuring range (VMR) of the respective sensor in psig (for EPS25-V14-1001 the percentage of the measuring span) is set.