



WELLMONKEY

Operating instructions
Electronic pressure sensor

US

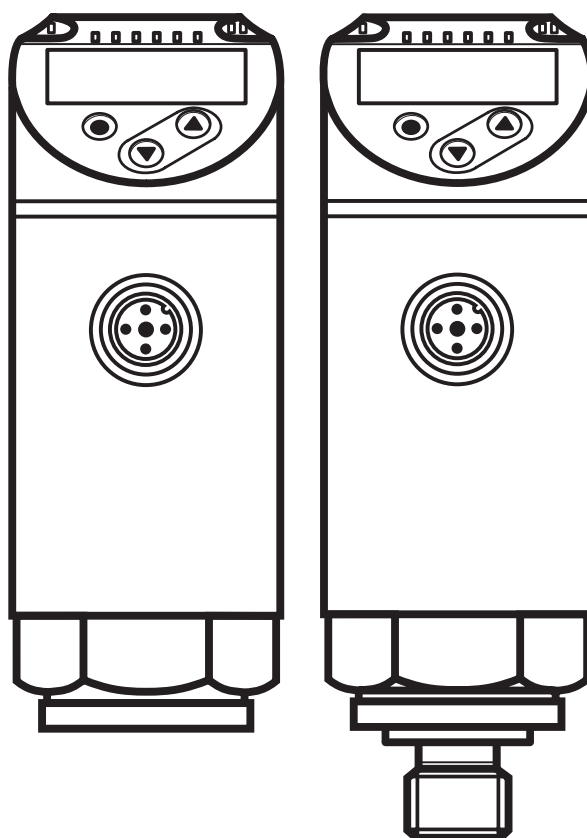
WMx5800

WMx3625

WMx1450

WMx0362

WMx0145



84412464 / 00 10 / 2017



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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 can 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 psi (25 bar) the notes in chapter 3.1 for devices with the marking **) must be absolutely observed.



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 results 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

Order no.	Measuring range		Permissible overpressure *)		Bursting pressure	
	psi	bar	psi	bar	psi	bar
Pressure sensors with internal thread 1/4 - 18 NPT						
WMI5800	0...5800	0...400	11580	800	24650	1700
WMI3625	0...3625	0...250	7250	500	17400	1200
WMI1450**	0...1450	0...100	4350	300	9400	650
WMI0362**	0...362	0...25	2175	150	5075	350
WMI0145**	-14.5...145	-1...10	1087	75	2175	150
WMI0036	0...36.2	0...2.5	290	20	725	50
WMI0014	0...14.5	0...1	145	10	450	30
WMI-0014	-14.5...14.5	-1...1	290	20	725	50
Pressure sensors with external thread 1/4 - 18 NPT						
WME5800	0...5800	0...400	11580	800	24650	1700
WME3625	0...3625	0...250	7250	500	17400	1200
WME1450**	0...1450	0...100	4350	300	9400	650
WME0362**	0...362	0...25	2175	150	5075	350
WME0145**	-14.5...145	-1...10	1087	75	2175	150
WME0036	0...36.2	0...2.5	290	20	725	50
WME0014	0...14.5	0...1	145	10	450	30
WME-0014	-14.5...14.5	-1...1	290	20	725	50

*) With static overload pressure or max. 100 million pressure cycles.

***) For gas applications > 362 psi (25 bar) it is necessary to use devices with a measuring range ≥ 3620 psi (250 bar)!

MPa = (measured value in bar) \div 10

kPa = (measured value in bar) \times 100

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Avoid static and dynamic overpressure exceeding the specified overload 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!



Pressure Equipment Directive (PED):

The units comply with section 3, article (3) of the Directive 97/23/EC and are designed and manufactured for "non-superheated liquids" of group 2 fluids in accordance with the sound engineering practice.

Restriction for stable gases according to PED → 2 Safety instructions.

4 Function

- The unit displays the current system pressure.
- It generates output signals according to the operating mode and the parameter setting.
- It moreover provides the process data via IO-Link.
- The unit is laid out for fully bidirectional communication. So, the following options are possible:
 - Remote display: reading and display of the current system pressure.
 - Remote parameter setting: reading and changing the current parameter setting.
 - IO-Link parameter setting → 4.3

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4.1 Communication, parameter setting, evaluation

OUT1 (pin 4)	<ul style="list-style-type: none">• Switching signal for system pressure limit value.• Communication via IO-Link.
OUT2 (pin 2)	<ul style="list-style-type: none">• Switching signal for system pressure limit value.

4.2 Switching function

OUT_x changes its switching state if it is above or below the set switching limits (SP_x, rP_x). The following switching functions can be selected:

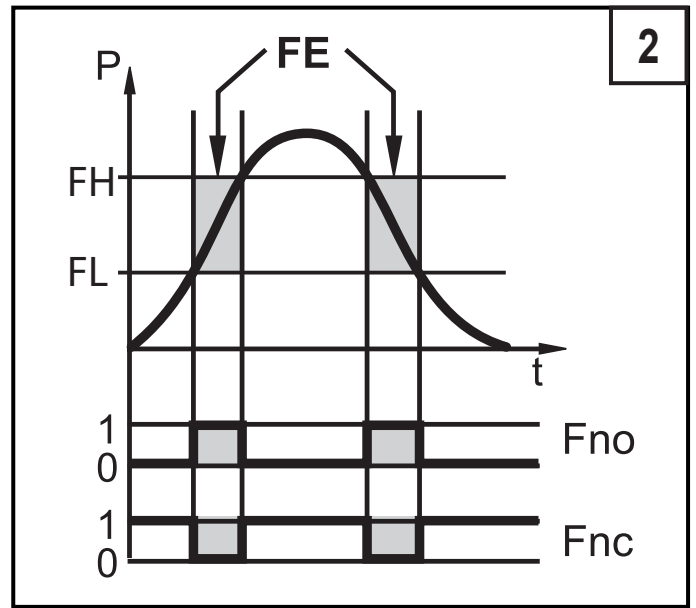
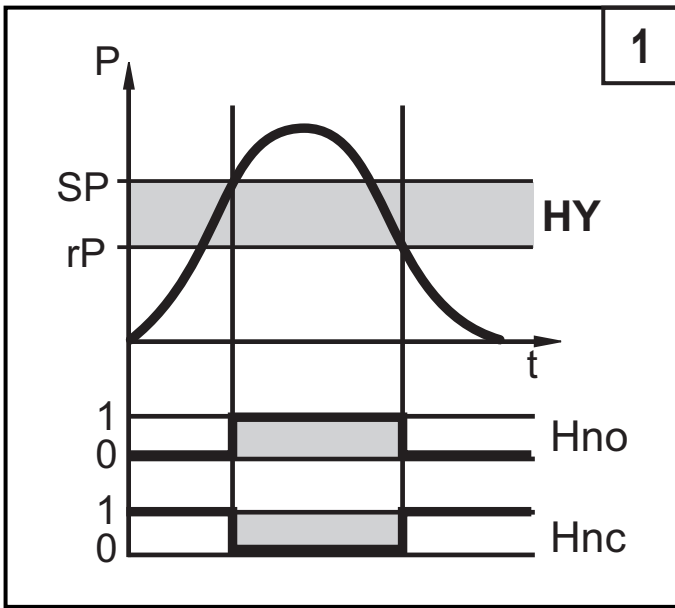
- Hysteresis function / normally open: [oux] = [Hno] (→ fig. 1).
- Hysteresis function / normally closed: [oux] = [Hnc] (→ fig. 1).

First the set point (SP_x) is set, then the reset point (rP_x).

The hysteresis defined remains even if SP_x is changed again.

- Window function / normally open: [oux] = [Fno] (→ fig. 2).
- Window function / normally closed: [oux] = [Fnc] (→ fig. 2).

The width of the window can be set by means of the difference between FH_x and FL_x. FH_x = upper value, FL_x = lower value.



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

4.3 IO-Link

General information

This unit has an IO-Link communication interface which requires an IO-Link-capable module (IO-Link master) for operation.

The IO-Link interface enables direct access to the process and diagnostic data and provides the possibility to set the parameters of the unit during operation.

In addition communication is possible via a point-to-point connection with a USB adapter cable.

Further information about IO-Link at www.wellmonkey.com → more product information → Specials → IO-Link.

Device-specific information

You can find the IODDs necessary for the configuration of the IO-Link unit and detailed information about process data structure,

diagnostic information and parameter addresses at www.wellmonkey.com → more product information → Specials → IO-Link.

Parameter setting tools

You will find all necessary information about the required IO-Link hardware and software at www.wellmonkey.com → more product information → Specials → IO-Link.

5 Installation



Before installing and removing the unit: Make sure that no pressure is applied to the system.

- ▶ Insert the unit in a process connection with a suitable thread.
- ▶ Tighten firmly.

Tightening Torque 1/4-18 NPT threads: 2...3 turns after finger tightened.



To ensure leak-free joints for NPT threads, sealants and lubricants commonly used in the industry should be used.

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6 Electrical connection



The unit must be connected by a qualified electrician.

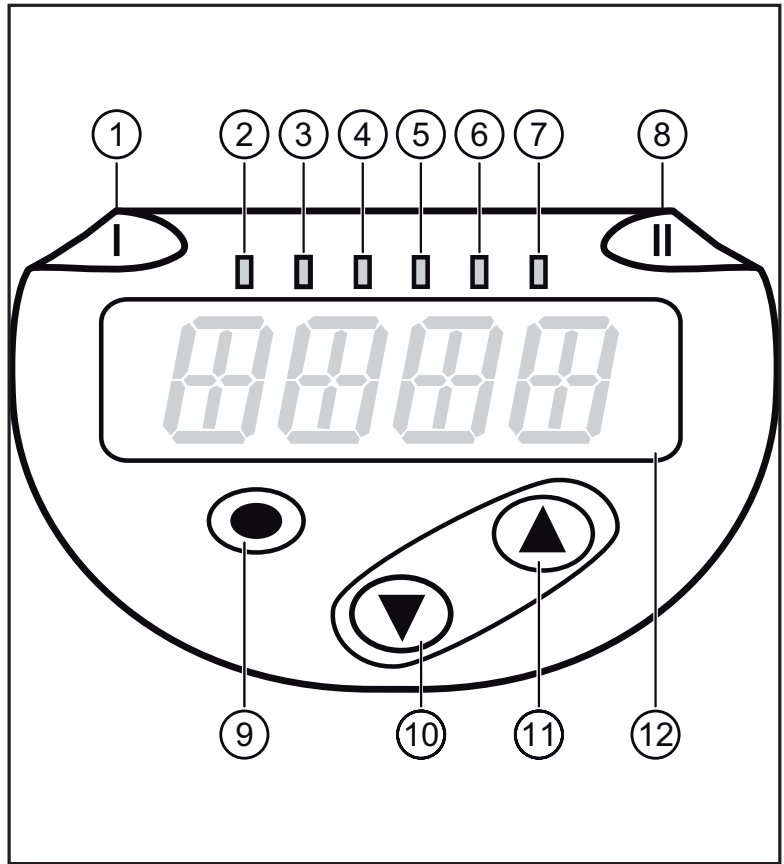
The national and international regulations for the installation of electrical equipment must be adhered to.

Voltage supply according to EN 50178, SELV, PELV.

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

Core colours			
BK	black		
BN	brown		
BU	blue		
WH	white		
			1 BN — L+ 2 WH — OUT2 4 BK — OUT1 3 BU — L-
			OUT1: Binary switching output or IO-Link OUT2: Binary switching output Colours to DIN EN 60947-5-6
Example circuits			
2 x positive switching		2 x negative switching	

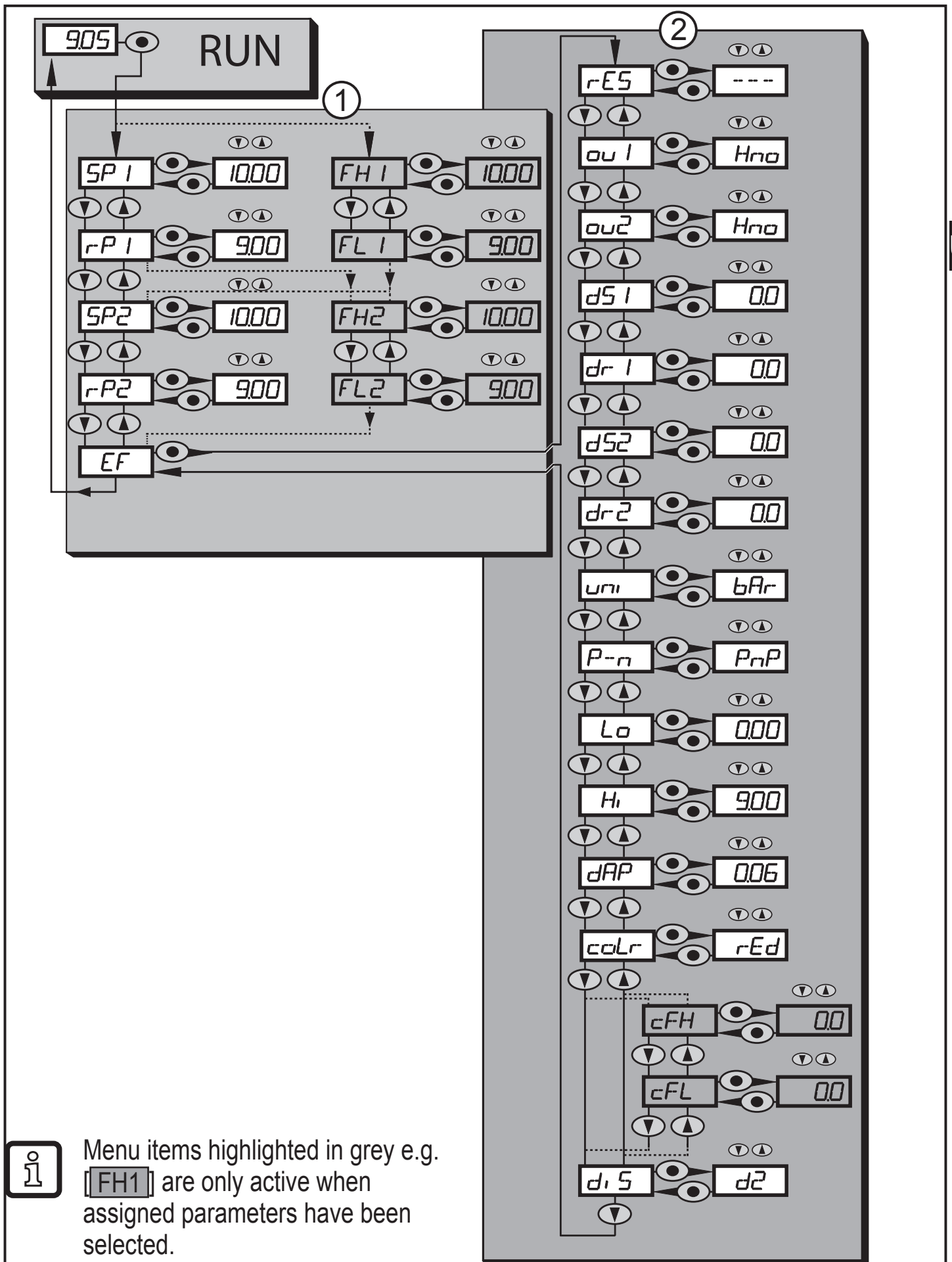
7 Operating and display elements



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



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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 OUT1 switches with hysteresis setting. SPx/rPx is displayed if the parameter [Hno] or [Hnc] for OUTx was set in the extended functions "EF" menu.
FHx/FLx	Upper / lower limit value for system pressure at which OUT1 switches with window setting. FHx/FLx is displayed if the parameter [Fno] or [Fnc] for OUTx was set in the extended functions "EF" menu.
EF	Extended functions / opening of menu level 2.

8.2.2 Explanation of the menu level 2

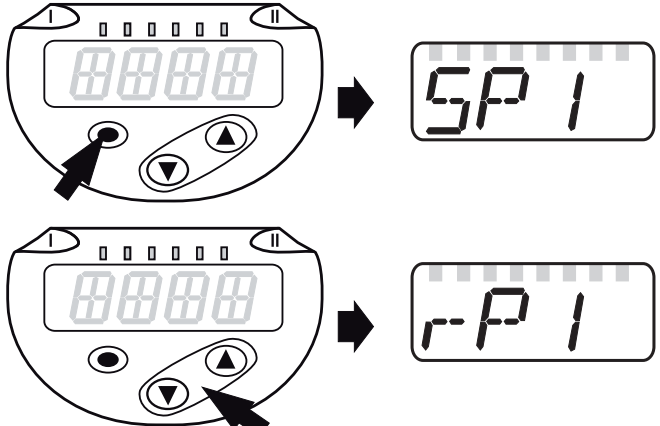
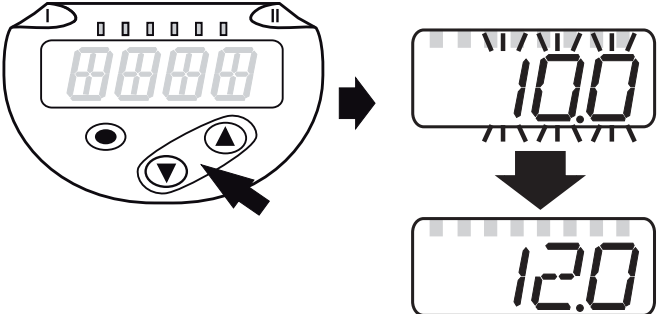
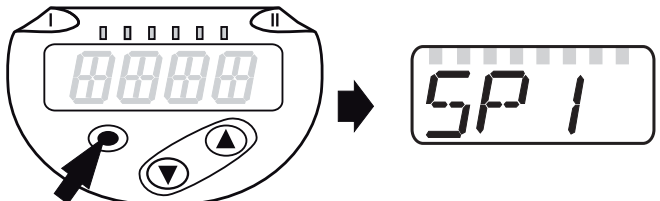
rES	Restore factory setting.
ou1	Output function for OUT1: <ul style="list-style-type: none">• Switching signal for the pressure limit values: hysteresis function [H ..] or window function [F ..], either normally open [. no] or normally closed [. nc].
ou2	Output function for OUT2: <ul style="list-style-type: none">• Switching signal for the pressure limit values: hysteresis function [H . .] or window function [F . .] as normally open (. no) or normally closed (. nc) each.
dS1 / dS2	Switching delays 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]
P-n	Output logic: pnp / npn.
Lo	Minimum value memory for system pressure.
Hi	Maximum value memory for system pressure.
dAP	Damping of the measured signal.
coLr	Assignment of the display colours "red" and "green" within the measuring range.
cFH / cFL	Upper / lower value for colour change. Parameter only active after selection of a freely definable colour 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:

<p>1</p>	<p>Select parameter</p> <ul style="list-style-type: none"> ▶ Press [●] to get to the menu. ▶ Press [▲] or [▼] until the requested parameter is displayed. 	
<p>2</p>	<p>Set parameter value</p> <ul style="list-style-type: none"> ▶ Press [●] to edit the selected parameter. ▶ Press [▲] or [▼] for min. 2 s. > After 2 s: setting value is changed: incrementally by pressing the button once or continuously by keeping the button pressed. 	
<p>Numerical values are incremented continuously with [▲] or decremented with [▼].</p>		
<p>3</p>	<p>Acknowledge parameter value</p> <ul style="list-style-type: none"> ▶ Briefly press [●]. > The parameter is displayed again. The new setting value is saved. 	
<p>Set other parameters</p> <ul style="list-style-type: none"> ▶ Press [▲] or [▼] until the requested parameter is displayed. 		
<p>Finish parameter setting</p> <ul style="list-style-type: none"> ▶ Press [▲] or [▼] several times until the current measured value is displayed or wait for 30 s. > The unit returns to the process value display. 		

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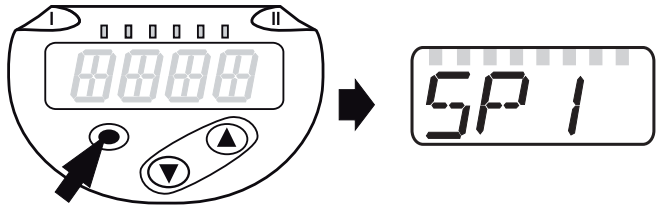
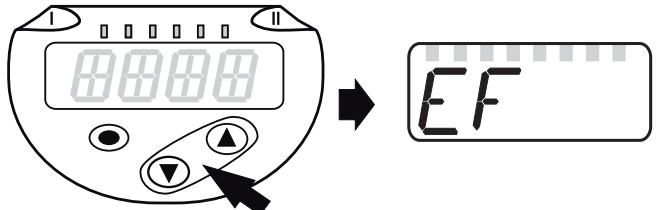
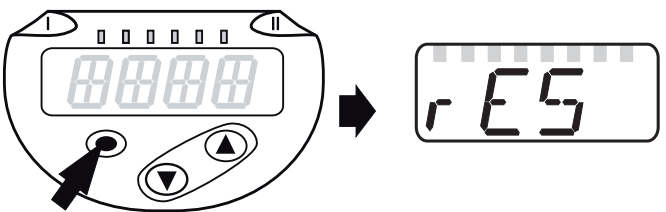


If [C.Loc] is displayed when an attempt is made to modify a parameter value, an IO-Link communication is active (temporary locking).



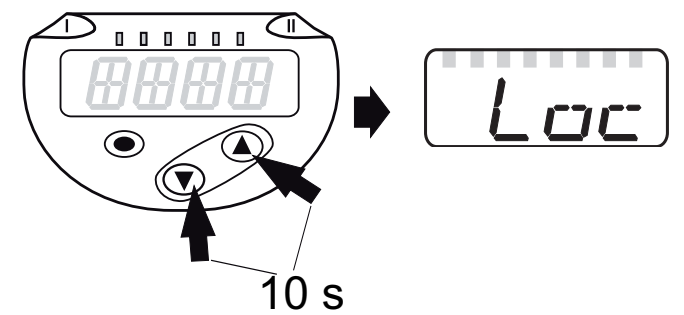
If [S.Loc] is displayed, the sensor is permanently locked via software. This locking can only be removed using a parameter setting software.

- Change from menu level 1 to menu level 2:

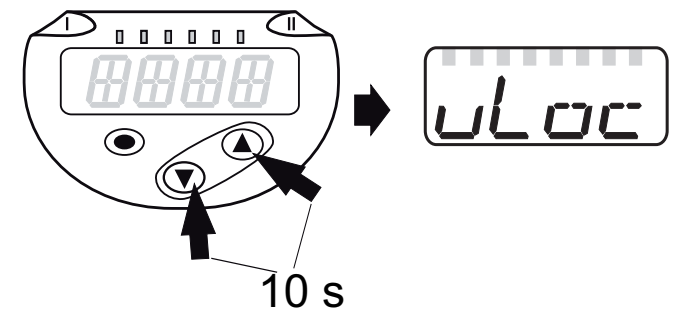
<p>▶ Press [●] to get to the menu.</p> <p>▶ Press [▼] until [EF] is displayed.</p>	 
<p>▶ Press [●].</p> <p>> The first parameter of the submenu is displayed (here: [rES]).</p>	

- Locking / unlocking

The unit can be locked electronically to prevent unintentional settings.

<ul style="list-style-type: none"> ▶ 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.

<p>For unlocking:</p> <ul style="list-style-type: none"> ▶ Make sure that the unit is in the normal operating mode. ▶ Press [▲] + [▼] simultaneously for 10 s. > [uLoc] is displayed. 	
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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.

9.2 Configure display (optional)

<p>▶ Select [Uni] and set the unit of measurement:</p> <ul style="list-style-type: none"> - [Psi], - [bAr], [mbAr], - [MPa], [kPa], - [inHG] 	
<p> The selectable units of measurement depend on the respective unit.</p>	
<p>▶ Select [diS] and set the update rate and orientation of the display:</p> <ul style="list-style-type: none"> - [d1]: update of the measured values every 50 ms. - [d2]: update of the measured values every 200 ms. - [d3]: update of the measured values every 600 ms. - [rd1], [rd2], [rd3]: display as for d1, d2, d3; rotated by 180°. - [OFF] = The measured value display is deactivated in the Run mode. The LEDs remain active even if the display is deactivated. Error messages are displayed even if the display is deactivated. 	
<p> Even with unsteady pressure characteristics [d1] provides optimum readability; the corresponding algorithms are stored.</p>	

9.3 Set output signals

9.3.1 Set output functions

<p>▶ Select [ou1] and set the switching function:</p> <ul style="list-style-type: none"> - [Hno] = hysteresis function/NO, - [Hnc] = hysteresis function/NC, - [Fno] = window function/NO, - [Fnc] = window function/NC. 	
<p>▶ Select [OU2] and set the function:</p> <ul style="list-style-type: none"> - [Hno] = hysteresis function/NO, - [Hnc] = hysteresis function/NC, - [Fno] = window function/NO, - [Fnc] = window function/NC. 	

9.3.2 Define switching limits for the hysteresis function


<p>▶ [ou1] / [ou2] must be set as [Hno] or [Hnc].</p> <p>▶ Select [SP1] / [SP2] and set the value at which the output is set.</p>	
<p>▶ Select [rP1] / [rP2] and set the value at which the output is reset. rPx is always smaller than SPx. The unit only accepts values which are lower than the value for SPx.</p>	

9.3.3 Define switching limits for the window function

<ul style="list-style-type: none"> ▶ [ou1] / [ou2] must be set as [Fno] or [Fnc]. ▶ Select [FH1] / [FH2] and set the upper limit value. 	FH1 FH2
<ul style="list-style-type: none"> ▶ Select [FL1] / [FL2] 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.	FL1 FL2

9.4 User settings (optional)

9.4.1 Set delay for the switching outputs

<p>[dS1] / [dS2] = switching delay for OUT1 / OUT2. [dr1] / [dr2] = reset delay for OUT1 / OUT2.</p> <ul style="list-style-type: none"> ▶ Select [dS1], [dS2], [dr1] or [dr2] and set a value between 0 and 50 s (at 0 the delay time is not active). 	dS1 dr1 dS2 dr2
 For this unit the parameters [dSx] und [drx] for the set and reset points are designed strictly to the VDMA guideline.	

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9.4.2 Set output logic for the switching outputs

<ul style="list-style-type: none"> ▶ Select [P-n] and set [PnP] or [nPn]. 	P--n
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9.4.3 Set damping for the switching signal

<ul style="list-style-type: none"> ▶ Select [dAP], set the value in seconds; setting range 0.000...4.000 s (τ value: 63 %). At 0.00 [dAP] is not active. 	dAP
---	-----




9.4.4 Read min/max values for the system pressure

<ul style="list-style-type: none"> ▶ Select [HI] or [Lo] and briefly press [●]. [HI] = maximum value, [LO] = minimum value. Delete memory: <ul style="list-style-type: none"> ▶ Select [HI] or [LO]. ▶ Press and hold [▲] or [▼] until [----] is displayed. ▶ Briefly press [●]. 	Hi Lo
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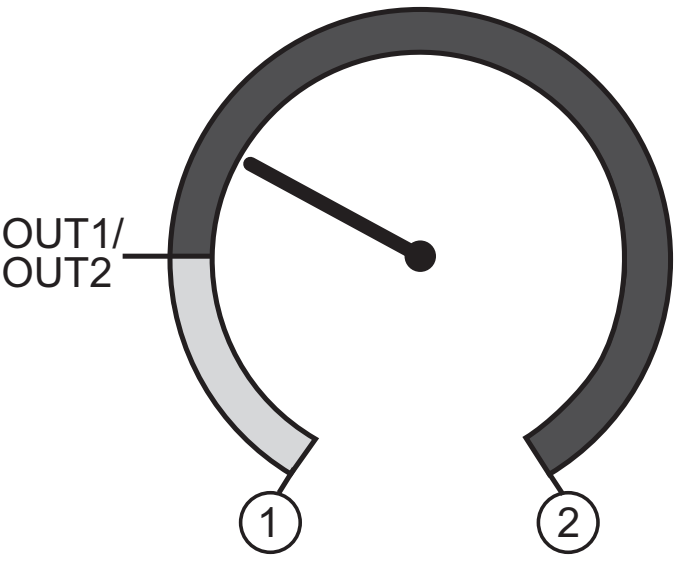
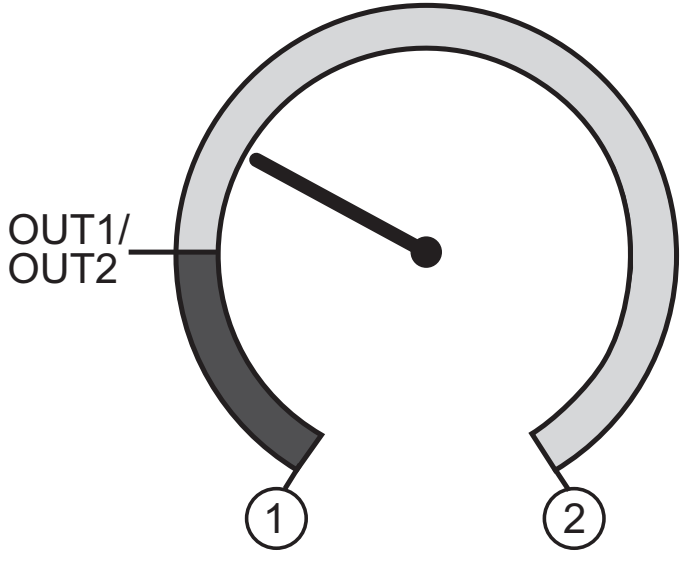
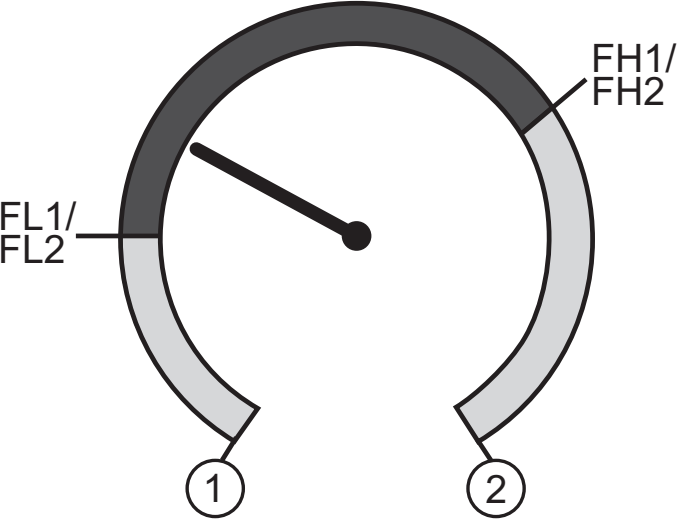
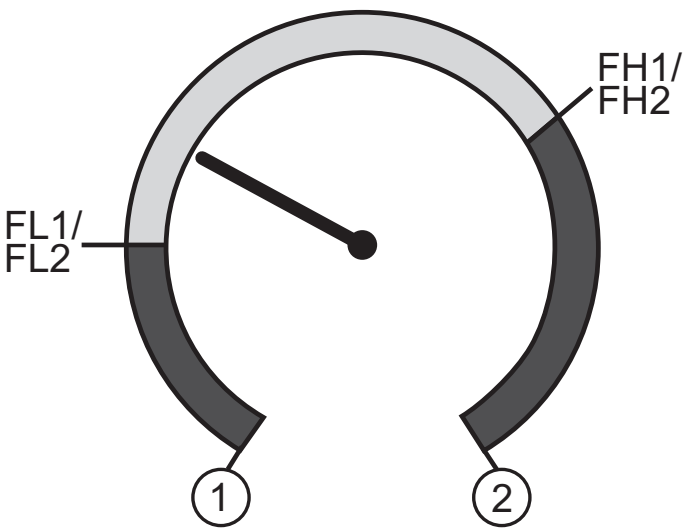


9.4.5 Reset all parameters to factory setting

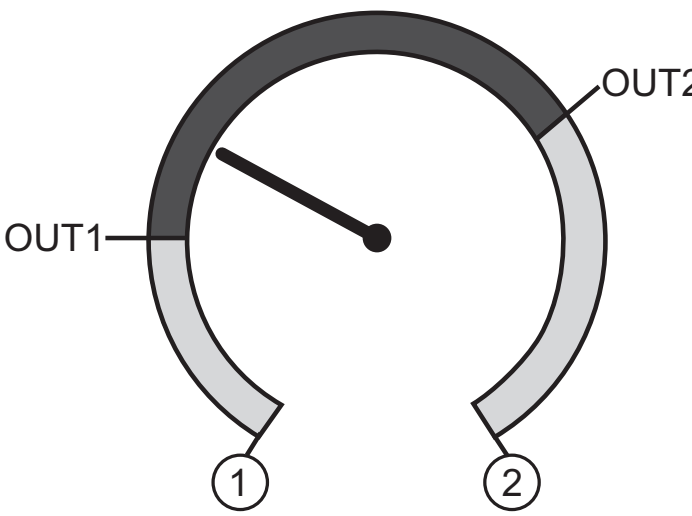
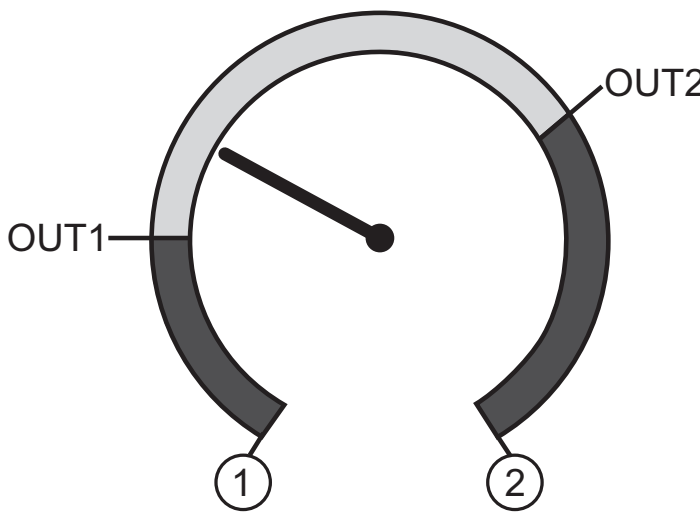
<ul style="list-style-type: none"> ▶ Select [rES]. ▶ Press [●]. ▶ Press and hold [▲] or [▼] until [----] is displayed. ▶ Briefly press [●]. <p>We recommend noting down your own settings before carrying out a reset (→ 12 Factory setting).</p>	
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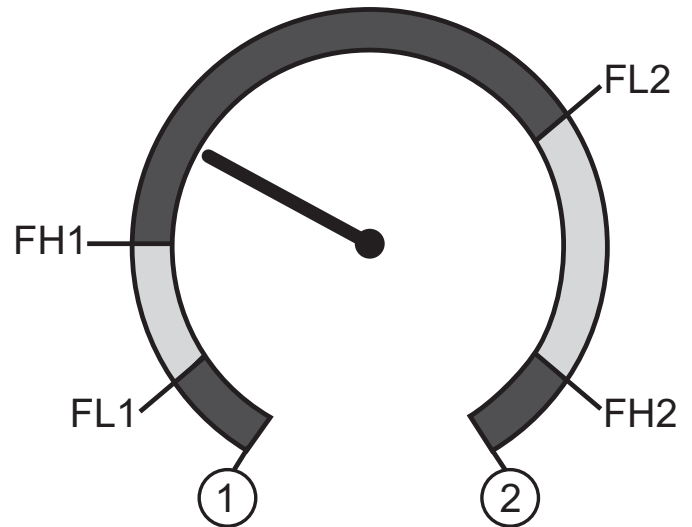
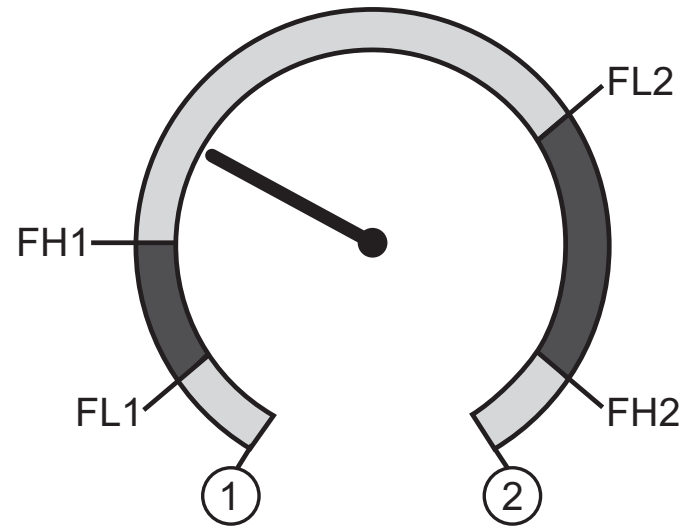
9.4.6 Set colour change of the display



<ul style="list-style-type: none"> ▶ Select [coLr] and set the function: <ul style="list-style-type: none"> - [rEd] = display colour red (independent of the measured value). - [GrEn] = display colour green (independent of the measured value). - [r1ou] = display colour red when OUT1 switches. - [G1ou] = display colour green when OUT1 switches. - [r2ou] = display colour red when OUT2 switches. - [G2ou] = display colour green when OUT2 switches. - [r-12] = Display colour red when the measured value is between the limit values of OUT1 and OUT2. - [G-12] = Display colour green when the measured value is between the limit values of OUT1 and OUT2. - [r-cF] = Display colour red when the measured value is between the freely definable limit values [cFL]^{*)} and [cFH]^{*)}. - [G-cF] = Display colour green when the measured value is between the freely definable limit values [cFL]^{*)} and [cFH]^{*)}. <p>^{*)} The parameters [cFL] and [cFH] can only be selected in the menu tree when [r-cF] or [G-cF] were activated.</p>	
<ul style="list-style-type: none"> ▶ Select [cFH] and set the upper limit value. (only possible when [r-cF] or [G-cF] were activated). > The setting range corresponds to the measuring range and its minimum limit is [cFL]. 	
<ul style="list-style-type: none"> ▶ Select [cFL] and set the lower limit value (only possible when [r-cF] or [G-cF] were activated). > The setting range corresponds to the measuring range and its maximum limit is [cFH]. 	

9.4.7 Graphical depiction of the colour change of the display

<p>Display colour change for the parameters [r1ou] / [r2ou], mode hysteresis function</p>	<p>Display colour change for the parameters [G1ou] / [G2ou], mode hysteresis function</p>
	
<p>Measured value > switch point OUT1/OUT2; Display = red</p>	<p>Measured value > switch point OUT1/OUT2; Display = green</p>
<p>Display colour change for the parameters [r1ou] / [r2ou], mode window function</p>	<p>Display colour change for the parameters [G1ou] / [G2ou], mode window function</p>
	
<p>Measured value between FL1/FL2 and FH1/ FH2; Display = red</p>	<p>Measured value between FL1/FL2 and FH1/ FH2; Display = green</p>
	<p>Colour change display green</p>
	<p>Colour change display red</p>
<p>1</p>	<p>Initial value of the measuring range</p>
<p>2</p>	<p>Final value of the measuring range</p>

Display colour change for the parameters [r-12] , mode hysteresis function	Display colour change for the parameters [G-12] , mode hysteresis function
	
Measured value between OUT1 and OUT2; Display = red	Measured value between OUT1 and OUT2; Display = green

Display colour change for the parameters [r-12] , mode window function	Display colour change for the parameters [G-12] , mode window function
	
Measured value outside FL1...FH1 and FL2...FH2; Display = red	Measured value outside FL1...FH1 and FL2...FH2; Display = green

	Colour change display green
	Colour 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 colour change with parameter [r-cF] independent of OUT1 / OUT2.	Display colour change with parameter [G-cF] independent of OUT1 / OUT2
Measured value between cFL and cFH; Display = red	Measured value between cFL and cFH; Display = green

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	Colour change display green
	Colour 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.

Operating indicators → 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), in addition they are available via IO-Link.

Display	Status LED OUT1	Status LED OUT2	Type of fault	Corrective measures
none			Supply voltage too low.	► Check / correct the supply voltage.
SC flashes	flashes	flashes	Excessive current at switching outputs OUT1 + 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 OU2 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“.
C.Loc			Parameter setting locked via pushbuttons, parameter setting is active via IO-Link communication (→ 9.1)	► Wait until parameter setting via IO-Link is finished.
S.Loc			Setting buttons locked via parameter software. Parameter change is rejected (→ 9.1).	► Unlocking only possible via IO-Link interface / parameter software.
OL			Process value too high. (measuring range exceeded)	► Check / reduce system pressure / select unit with corresponding measuring range.

Display	Status LED OUT1	Status LED OUT2	Type of fault	Corrective measures
UL			Process value too low (value below measuring range).	▶ Check / increase system pressure / select unit with corresponding measuring range.
Err flashes			Internal fault / malfunc- tion.	▶ Contact the manufacturer.

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

11 Technical data and scale drawing

11.1 Setting ranges

		SP1 / SP2		rP1 / rP2		ΔP
		min	max	min	max	
WM5800	psi	40	5800	20	5780	20
	bar	4	400	2	398	2
	MPa	0.4	40	0.2	39.8	0.2
WM3620	psi	40	3620	20	3600	20
	bar	2	250	1	249	1
	MPa	0.2	25	0.1	24.9	0.1
WM1450	psi	10	1450	5	1445	5
	bar	1	100	0.5	99.5	0.5
	MPa	0.1	10	0.05	9.95	0.05
WM0362	psi	4	362	2	360	2
	bar	0.2	25	0.1	24.9	0.1
	MPa	0.02	2.5	0.01	2.49	0.01
WM0145	psi	-13,5	145	-14	144,5	0,5
	bar	-0.9	10	-0.95	9.95	0.05
	MPa	-0.09	1	-0.095	0.995	0.005
WM0036	psi	0.4	36.2	0.2	36	0.2
	bar	0.02	2.5	0.01	2.49	0.01
	kPa	2	250	1	249	1
WM0014	psi	0.1	14.5	0.05	14.45	0.05
	mbar	10	1000	5	995	5
	kPa	1	100	0.5	99.5	0.5
	inHG	0.2	29.5	0.1	29.4	0.1
WM-0014	psi	-14.3	14.5	-14.4	14.4	0.1
	mbar	-980	1000	-990	990	10
	kPa	-98	100	-99	99	1
	inHG	-29,0	29.6	-29.2	29.4	0.2

ΔP = step increment

11.2 Further technical data



Further technical data and scale drawing at www.wellmonkey.com →
Data sheet search → Enter the article number.

12 Factory setting

	Factory setting	User setting
SP1	25% VMR *	
rP1	23% VMR *	
ou1	Hno	
ou2	Hno	
SP2	75% VMR *	
rP2	73% VMR *	
dS1	0.0	
dr1	0.0	
dS2	0.0	
dr2	0.0	
uni	Psi	
P-n	PnP	
dAP	0.06	
colr	rEd	
diS	d2	

* = The indicated percentage of the final value of the measuring range (VMR) of the respective sensor in Psi (for WMxxx the percentage of the measuring span) is set.

More information at www.wellmonkey.com

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