

Operating instructions Electronic manometer PG2734

CE



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1 Preliminary note

1.1 Symbols used

- Instruction
- > Reaction, result
- [...] Designation of pushbuttons, buttons or indications
- \rightarrow Cross-reference



- Important note
- Non-compliance can result in malfunctions or interference.
- ฏ Inf
- Information Supplementary note.

2 Safety instructions

- The device described is a subcomponent for integration into a system.
 - The manufacturer is responsible for the safety of the system.
 - The system manufacturer undertakes to perform a risk assessment and to create a documentation in accordance with legal and normative requirements to be provided to the operator and user of the system. This documentation must contain all necessary information and safety instructions for the operator, the user and, if applicable, for any service personnel authorised by the manufacturer of the system.
- Read this document before setting up the product and keep it during the entire service life.
- The product must be suitable for the corresponding applications and environmental conditions without any restrictions.
- Only use the product for its intended purpose (\rightarrow Functions and features).
- Only use the product for permissible media (\rightarrow Technical data).
- If the operating instructions or the technical data are not adhered to, personal injury and/or damage to property may occur.
- The manufacturer assumes no liability or warranty for any consequences caused by tampering with the product or incorrect use by the operator.
- Installation, electrical connection, set-up, operation and maintenance of the product must be carried out by qualified personnel authorised by the machine operator.
- Protect units and cables against damage.

3 Functions and features

The unit monitors the system pressure in a plant.

3.1 Applications

Type of pressure: relative pressure



Information on pressure rating and bursting pressure \rightarrow data sheet.



Avoid static and dynamic overpressure exceeding the given 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!



The unit can be operated at media temperatures up to 145°C (max. 1h) / 125°C (permanently). Therefore it is suitable for all standard cleaning and sterilisation processes (CIP, SIP).

Not to be used in a system that has to fullfill D10.1.2/74-03 of 3A standard 74-03.

4 Function

4.1 Process measured signals

• The unit generates 2 output signals according to the parameter settings.

OUT1	 Switching signal for system pressure limit value.
OUT2	• Analogue signal (420 mA, 204 mA).

- The unit displays the current system pressure.
 Analogue display: circular scale with pointer.
 Digital display (alphanumeric display, 4 digits).
- In addition, an LED ring with one of the following display options is available:

Display of set point and reset point.

Trend display (rising pressure / falling pressure).

Lag indicator function for maximum value or minimum value.

Display of pulsating signals and pressure peaks.

4.2 Pressure monitoring / switching function

OUT1 changes its switching state if it is above or below the set switching limits (SP1, rP1). The following switching functions can be selected:

- Hysteresis function / normally open: $[OU1] = [Hno] (\rightarrow fig. 1).$
- Hysteresis function / normally closed: [OU1] = [Hnc] (→ fig. 1).
 First the set point (SP1) is set, then the reset point (rP1) with the requested difference.
- Window function / normally open: $[OU1] = [Fno] (\rightarrow fig. 2).$
- Window function / normally closed: [OU1] = [Fnc] (→ fig. 2). The width of the window can be set by means of the difference between SP1 and rP1. SP1 = upper value, rP1 = lower value.



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

4.3 Pressure monitoring / analogue function

The analogue output can be configured.

 [OU2] defines whether the set measuring range is provided as 4...20 mA ([OU2] = [I]) or as 20...4 mA ([OU2] = [InEG]).

Scaling can be set by means of the teaching process or by entering a value for the ASP and AEP parameters.

- Teaching the analogue start point [tASP] or setting the parameter [ASP] defines at which measured value the analogue signal is 4 mA (20 mA at [InEG]).
- Teaching the analogue end point [tAEP] or setting the parameter [AEP] defines at which measured value the output signal is 20 mA (4 mA at [InEG]).

Minimum distance between [ASP] and [AEP] = 25 % of the of the final value of the measuring range.



 ${\sf P}$ = system pressure , MAW = initial value of the measuring range, MEW = final value of the measuring range

(1): [OU2] = [I]; (2): [OU2] = [InEG]

In the set measuring range the output signal is between 4 and 20 mA ([OU2] = [I]) or between 20 and 4 mA ([OU2] = [InEG]). It is also indicated:

- System pressure above the measuring range:
 - Output signal 20 to 20.5 mA at [OU2] = [I].
 - Output signal 4 to 3.8 mA at [OU2] = [InEG].
- System pressure below the measuring range:
 - Output signal 4 to 3.8 mA at [OU2] = [I].
 - Output signal 20 to 20.5 mA at [OU2] = [InEG].

4.4 Customer-specific calibration

The customer-specific calibration changes the curve of measured values compared to the real measured values (shifting / change of the gradient; \rightarrow 9.4.6 [CAL]).

- Two calibration points can be defined (CP1, CP2). The two points are independent of each other. They must be within the measuring range and not in the extended display range.
- The zero point calibration [COF] influences the calibration of the curve of measured values. Recommendation: set [COF] to 0 (→ 9.4.1 [COF]), then calibrate the curve of measured values.

After a change the calibration can be reset to factory setting (\rightarrow 9.5.2 [rES]).



- P = measured pressure;
 P' = modified measured value
- CP1 = calibration point 1;
 CP1' = modified measured value for CP1
- CP2 = calibration point 2;
 CP2' = modified measured value for CP2
- 1 = curve of measured values at factory setting
- 2 = curve of measured values after calibration

5 Installation

- Before installing and removing the unit make sure that no pressure is applied to the system and there is no medium in the pipe.
 Note: If "0%" is displayed and no pointer is visible, this does not mean that no pressure is applied to the system!
 - ► Note dangers related to extreme machine / medium temperatures.



We recommend horizontal installation for high medium temperatures. When installed near agitators or pumps, pulsation fluctuations may influence the function of the unit.

5.1 Units with G1 / Aseptoflex Vario process connection

Insert the unit with process adapter into the process connection and tighten using a spanner.



Information about available adapters at www.ifm.com.

- ► Observe the instructions of the adapter.
- Use a lubricating paste which is suitable and approved for the application.
- Tighten firmly. Recommended tightening torque: 35 Nm Depends on the sealing type, the pressure load and the lubrication!

The unit can be fixed to different process connections.Options are as follows:

Installation using an adapter with sealing ring (hygiene-compliant)
 Order no. E332xx / E333xx.
 To meet the hygiene regulations use a process adapter with leakage port.
 The adapters are supplied with EPDM O-ring (order no. E30054).
 More sealing rings are available as accessories:
 FKM O-ring (order no. E30123)
 PEEK sealing ring (order no. E30124). The PEEK sealing ring is long-term stable and maintenance-free.
 When you replace the PEEK sealing ring or change from a PEEK sealing ring to an O-ring the process adapter also needs to be replaced with a new equivalent adapter.

2	Installation using a welding adapter with sealing ring (hygiene-compliant)
	To meet the hygiene regulations use a process adapter with leakage port.
	Make sure that the process adapter does not warp during welding. Use welding mandrel E30452.
	► The sealing edge must not be damaged by subsequent surface treatment. (→ Details in operating instructions of the adapter).
	The adapter is supplied with EPDM O-ring (order no. E30054). Another sealing ring is available as accessory:
	 FKM O-ring (order no. E30123);
3	Installation using a process adapter with metal-to-metal seal
	Order no. E337xx / E338xx
	A long-term stable, maintenance-free and gap-free fitting in the metal- to-metal seal is only valid for once-only mounting.
	If the sealing has to be installed several times, use a new adapter.
4	Installation to G 1 flange / G 1 bush
	The process is sealed with the sealing ring at the back of the sensor.
	The sealing area on the flange / bush must be flush with the tapped hole and have a surface characteristic of min. Rz = 6.3.

5.2 Use in hygienic areas to 3A



The following applies to units with 3A certification:

- Only use adapters with 3A qualification for the process connection.
- Do not install the unit at the lowest point of the pipe or tank (→ position 5) in order that the medium can run off the area of the measuring element.

5.3 Use in hygienic areas to EHEDG

- !
- In case welded adapters are used, the food contact surface must be smooth (surface roughness Ra < 0.8μ m) and the welding has to be done according to EHEDG Guideline 9 and 35.



- The unit is suited for CIP (cleaning in process) when installed correctly.
- Observe the application limits (temperature and material resistance) according to the data sheet.
- ► Make sure that the sensor is integrated into the system according to EHEDG:
- ► Use self-draining installation.
- Only use process adapters permitted according to EHEDG with special seals required by the EHEDG position paper.



The gasket of the system interface must not be in contact with the sealing point of the sensor.

- In case of structures in a tank, the installation must be flush mount. If not possible then direct water jet cleaning and cleaning of dead spaces must be possible.
- Leakage ports must be clearly visible and must be installed facing downwards for vertical pipes.



To avoid dead space adhere to the dimensions:
 L < (D).

1: Leakage port

5.4 Ventilation diaphragm

5.4.1 Function ventilation diaphragm

The ventilation diaphragm enables the relative pressure measurement since barometric and temperature-dependent pressure fluctuations between the measuring cell and the environment are compensated for.

The ventilation diaphragm is protected against damage by a screwed filter cover with circumferential ports.



For a correct functioning of the diaphragm please take the following into account:

Remove soiling and cleaning agents immediately using plenty of limedeficient splash water.



If the sensor is in a cooling stage:

- ► Avoid contact of the diaphragm with liquids:
 - > Avoids negative pressure in the measuring system resulting in a slightly falsified measured value and additional strain on the diaphragm.

5.5 Filter cover

Replace filter cover:

- **1** Exchange the filter cover incl. GORE diaphragm (E30142).
- 2 Replace the filter cover with a closed version (E30148) (*)

Improve the protection of the filter cover:

- **3** Replace the filter cover with a version with a tube fitting and a vent tube that ends in a protected and dry area (E30139)
- 4 Set of accessories (E30467) with integrated ventilation diaphragm, for high degree of soiling and / or high climate pollution.

Function: (\rightarrow Installation instructions E30467)

- Avoid soiling and moisture during the exchange
 Observations of a second second with several available of the several second second second several second several sev
 - Clean the thread carefully and without residues
 - Do not damage the adhesive area of the sensor
 - ► Observe the orientation of the filter cover (→ Installation instructions E30139 / 30467)





- (*)When using the closed cover cap, there is no pressure compensation of the measuring cell any more. This results in measurement deviations caused by:
- fluctuations of the atmospheric pressure
- pressure fluctuations inside the unit in case of temperature fluctuations (Δ 10 K ≤ 30 mbar).

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:



Pin 1	Ub+
Pin 3	Ub-
Pin 4 (OUT1)	 Binary switching output pressure monitoring
Pin 2 (OUT2)	 Analogue output for system pressure

Core colours of ifm sockets:

1 = BN (brown), 2 = WH (white), 3 = BU (blue), 4 = BK (black)

7 Operating and display elements



5: Touch button Set*

- Setting of the parameter values (continuously by touching permanently; step by step by touching briefly several times).

6: Touch button Mode/Enter*

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

* The two touch buttons are activated simply by touching / deactivated by releasing the touch button.

The touch button must be completely covered to be activated.

Slow covering (e.g. liquid flows over the display) does not activate the touch button.

8 Menu

8.1 Menu structure: main menu



1: Change to menu level 2 (extended functions)

8.2 Explanation of the main menu

SP1/rP1	Upper / lower limit value for system pressure at which OUT1 switches.	
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]. 	
OU2	Output function for OUT2: • Analogue signal for the current system pressure: 420 mA [I], 204 mA [InEG].	
tCOF	Teach zero-point calibration.	
tASP	Teach analogue start point for system pressure: set measured value at which 4 mA is provided (20 mA if [OU2] = [InEG]).	UK
tAEP	Teach analogue end point for system pressure: set measured value at which 20 mA is provided (4 mA if [OU2] = [InEG]).	
EF	Extended functions / opening of menu level 2.	

8.3 Menu structure: level 2 (extended functions)



1: Change to the main menu

8.4 Explanation of the menu level 2

Uni	Standard unit of measurement for system pressure. (Preset = kPa, no other unit available).	
SELd	Display mode: • Pressure in kPa. • Pressure in % of the set scaling of the analogue output.	
ASP	Analogue start point for system pressure: measured value at which 4 mA is provided (20 mA if [OU2] = [InEG]).	
AEP	Analogue end point for system pressure: measured value at which 20 mA is provided (4 mA if [OU2] = [InEG]).	UK
HI	Maximum value memory for system pressure.	
LO	Minimum value memory for system pressure.	
COF	Zero-point calibration.	
dS1	Switch-on delay for OUT1.	
dr1	Switch-off delay for OUT1.	
P-n	Switching logic for OUT1: pnp or npn.	
dAP	Damping for switching outputs and display.	
dAA	Damping for analogue output (OUT2).	
diS	Update rate and orientation of the display.	
LED	Setting for the LED ring.	
CAL	Calibration function (setting the curve of measured values).	
CP1	Calibration point 1	
CP2	Calibration point 2	
rES	Restore factory settings.	

9 Parameter setting

During parameter setting the unit remains in the operating mode. It continues its monitoring function with the existing parameters until the parameter setting has been completed.

Exceptions: changes to the parameters COF (\rightarrow 9.4.1), CP1 and CP2 (\rightarrow 9.4.6) take effect immediately.

9.1 General parameter setting

3 steps must be taken for each parameter setting:



If no touch button is activated for 15 s during parameter setting, the unit returns to the operating mode with unchanged values.

• Change from menu level 1 to menu level 2:



Locking / unlocking

The unit can be locked electronically to prevent an unintentional operation.

- Make sure that the unit is in the normal operating mode.
- ► Touch [Set],
- additionally touch [Mode/Enter] and keep both buttons touched for 10 s.
- > The LED for the current unit of measurement flashes, the current system pressure continues to be displayed. After 10 s the display goes out for approx. 1 s.
- Release [Mode/Enter] and [Set] again. Both buttons must be released within 4 s. If this does not happen, the unit remains unlocked.
- > [Loc] is displayed, the unit is locked. .

During operation the indicator LED for the display unit (\rightarrow chapter 7) is flashing if you try to open the menu.

For unlocking:

- Make sure that the unit is in the normal operating mode.
- ► Touch [Set],
- additionally touch [Mode/Enter] and keep both buttons touched for 10 s.
- > The LED for the current unit of measurement flashes, the current system pressure continues to be displayed. After 10 s the display goes out for approx. 1 s.
- Release [Mode/Enter] and [Set] again. Both buttons must be released within 4 s. If this does not happen, the unit remains unlocked.
- > [uLoc] is displayed, the unit is unlocked.

On delivery: unlocked.

9.2 Configuration of the digital display (optional)

Standard unit of measurement for system pressure. (Preset = kPa, no other unit available).	וריז
 Select [SELd] and set type of indication: [P]: system pressure inkPa. [P%]: system pressure in % of the set scaling of the analogue output; the following applies: 0% = ASP value / 100% = AEP value. Note: display "0%" does not mean that no pressure is applied to the system. 	SELd
 Select [diS] and set the update rate of the display: [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. [OFF] = The measured value display is deactivated in the Run mode. Touching one of the buttons indicates the current measured value for 15 s. Touching the [Mode/Enter] button again activates the display mode. The indicator LEDs remain active even if the display is deactivated. 	d, 5
 Select [LED] and set the display function for the digital display and LED ring: [SPRP]: One LED on the LED ring indicates the set point and a second LED the reset point. [HInd]: 2 adjacent LEDs on the LED ring mark the lag indicator for maximum value ([HInd], high indication). [LInd]: 2 adjacent LEDs on the LED ring mark the lag indicator for minimum value ([LInd], low indication). [LInd]: 2 adjacent LEDs on the LED ring mark the lag indicator for minimum value ([LInd], low indication). To reset: Touch [Set] for 1 second. The two LEDs jump to the current position of the pointer. [Ph]: Display of pulsating signals and pressure peaks: 	LED

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. 	001	
 Select [OU2] and set the analogue function: [I] = current signal proportional to pressure 420 mA. [InEG] = current signal proportional to pressure 204 mA. 	002	
9.3.2 Set switching limits		
Select [SP1] and set the value at which the output switches.	SP (
Select [rP1] and set the value at which OUT1 switches off. rP1 is always smaller than SP1. The unit only accepts values which are lower than SP1.	r-P	
9.3.3 Scale analogue value for OUT2		
 Set the minimum pressure requested in the system. Touch [Mode/Enter] until [tASP] appears. Touch [Set] and keep it touched. Current setting value flashes. Release [Set] when the display stops flashing. New setting value is displayed. Touch [Mode/Enter] briefly. The current system pressure is defined as start value for the analogue signal. 	LASP	
 Set the maximum pressure requested in the system. Touch [Mode/Enter] until [tAEP] appears. Touch [Set] and keep it touched. Current setting value flashes. Release [Set] when the display stops flashing. New setting value is displayed. Touch [Mode/Enter] briefly. The current system pressure is defined as end value for the analogue signal. 	LAEP	
ASP / AEP can only be set automatically within defined limits (\rightarrow 12.1 Setting ranges). If automatic setting is carried out at an invalid pressure value, [UL] or [OL] is displayed. After acknowledgement by [Mode/Enter] [Err] flashes, the ASP value / AEP value is not changed.		

As an alternative: Select [ASP] and set the measured value at which 4 mA is provided (20) mA at [OU2] = [InEG]).

Select [AEP] and set the measured value at which 20 mA is provided (4) mA at [OU2] = [InEG]).

Minimum distance between ASP and AEP = 25% of the final value of the measuring range (turn-down 1:4).

9.4 User settings (optional)

9.4.1 Carry out zero point calibration

	Select [COF] and set a value between -5% and 5% of the final value of the measuring range. The internal measured value "0" is shifted by this value.	COF
As a 5 % ► ► ► ► ► ► ► ► ► ► ► ► ► ► ► ► ► ►	an alternative: automatic adjustment of the offset in the range 0 kPa ± o. Make sure that no pressure is applied to the system. Touch [Mode/Enter] until [tCOF] appears. Touch [Set] and keep it touched. The current offset value (in %) flashes briefly. The current system pressure is displayed. Release [Set].	FCDL
	Touch [Mode/Enter] briefly (= to confirm the new offset value).	

9.4.2 Set delay time for OUT1

 [dS1] = switch-on delay / [dr1] = switch-off delay. ▶ Select [dS1] or [dr1] and set a value between 0.1 and 50 s (at 0.0 the delay time is not active). 	d5 dr

9.4.3 Set switching logic for OUT1

▶ Select [P-n] and set [PnP] or [nPn].

9.4.4 Set damping for the switching signal

Select [dAP] and set a value between 0.01 and 30 s. dAP value = response time between pressure change and change of the	dAP
switching status in seconds. [dAP] influences the switching frequency: $f_{max} = 1 \div 2dAP$. [dAP] also has an effect on the display.	



9.4.5 Set damping for the analogue signal

► Select [dAA] and set a value between 0.01 and 30 s.

dAA value = response time between pressure change and change of the analogue signal in seconds.

9.4.6 Calibrate curve of measured values

If the unit is to adopt the settings for the calibration points, the following conditions must be adhered to:

- CP1 and CP2 must be within the measuring range (i.e. between ASP and AEP).
- CP1 and CP2 must not be in the extended display range.
- Minimum distance between the calibration points CP1 and CP2 = 5 % of the final value of UK the measuring range.
- Maximum correction value = ± 2 % of the final value of the measuring range.

	Set a defined reference pressure between ASP and AEP in the system. Select [CAL]. Touch [Set] briefly. [CP1] is displayed. Touch [Set] for 5 s. The pressure measured by the unit is displayed. Touch [Set] until the set reference pressure is indicated (measured pressure = reference pressure) or the corresponding analogue signal is provided to OUT2.	CAL CP I
>	[CP1] is displayed.	
►	Touch [Mode/Enter] briefly.	
>	[CP2] is displayed.	
	Finish selibration	
a) ► >	Touch [Mode/Enter] briefly. [CAL] is displayed	[P2
a) ► > b)	Touch [Mode/Enter] briefly. [CAL] is displayed. Change a 2nd point on the curve of measured values:	[P2
a) ► ► ►	Touch [Mode/Enter] briefly. [CAL] is displayed. Change a 2nd point on the curve of measured values: Set a second defined reference pressure in the system.	[P2
a) ▶ > b) ▶	Touch [Mode/Enter] briefly. [CAL] is displayed. Change a 2nd point on the curve of measured values: Set a second defined reference pressure in the system. Touch [Set] for 5 s.	[P2
a) ► > b) ► ► >	Touch [Mode/Enter] briefly. [CAL] is displayed. Change a 2nd point on the curve of measured values: Set a second defined reference pressure in the system. Touch [Set] for 5 s. The pressure measured by the unit is displayed.	[P2
a) ▲ > b) ▲ ▲ > ▲	Touch [Mode/Enter] briefly. [CAL] is displayed. Change a 2nd point on the curve of measured values: Set a second defined reference pressure in the system. Touch [Set] for 5 s. The pressure measured by the unit is displayed. Touch [Set] until the set reference pressure is indicated (measured pressure a reference pressure is indicated (measured)	[P2
a) ► > b) ► ► > ►	Touch [Mode/Enter] briefly. [CAL] is displayed. Change a 2nd point on the curve of measured values: Set a second defined reference pressure in the system. Touch [Set] for 5 s. The pressure measured by the unit is displayed. Touch [Set] until the set reference pressure is indicated (measured pressure = reference pressure) or the corresponding analogue signal is provided to OUT2	[[]]
a) ► > b) ► ► > ►	Touch [Mode/Enter] briefly. [CAL] is displayed. Change a 2nd point on the curve of measured values: Set a second defined reference pressure in the system. Touch [Set] for 5 s. The pressure measured by the unit is displayed. Touch [Set] until the set reference pressure is indicated (measured pressure = reference pressure) or the corresponding analogue signal is provided to OUT2. Touch [Mode/Enter] briefly.	[P2
a) ► > b) ► ► > ► > ► >	Touch [Mode/Enter] briefly. [CAL] is displayed. Change a 2nd point on the curve of measured values: Set a second defined reference pressure in the system. Touch [Set] for 5 s. The pressure measured by the unit is displayed. Touch [Set] until the set reference pressure is indicated (measured pressure = reference pressure) or the corresponding analogue signal is provided to OUT2. Touch [Mode/Enter] briefly. [CP2] is displayed.	[P2
a) ► > b) ► ► > ► > ► > ►	Touch [Mode/Enter] briefly. [CAL] is displayed. Change a 2nd point on the curve of measured values: Set a second defined reference pressure in the system. Touch [Set] for 5 s. The pressure measured by the unit is displayed. Touch [Set] until the set reference pressure is indicated (measured pressure = reference pressure) or the corresponding analogue signal is provided to OUT2. Touch [Mode/Enter] briefly. [CP2] is displayed. Touch [Mode/Enter] briefly.	[P2

9.5 Service functions

9.5.1 Read min/max values for system pressure

HI LO
r-E5

It is recommended to take down your own settings in the table before

carrying out a reset (\rightarrow 13 Factory setting).

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 \rightarrow 7 Operating and display elements.

Reset the lag indicator (if [LED] = [HInd] or [LInd]):

- ► Touch [Set] for 1 second.
- > The two lag indicator LEDs jump to the current position of the pointer.

10.1 Read set parameters

- ► Touch [Mode/Enter] until the requested parameter is displayed.
- ► Touch [Set] briefly.
- > The unit displays the corresponding parameter value for about 15 s. After another 15 s it returns to the Run mode.

10.2 Error indications

[OL]	Overload pressure (measuring range exceeded).
[UL]	Underload pressure (below measuring range).
[SC1]	Short circuit in OUT1. The output is switched off as long as the short circuit persists.
[Err]	Flashing: internal error, invalid entry.
T 1	

The messages SC1 and Err are displayed even if the display is switched off.

10.3 Setting ranges

		SI	P1	rF	P1	AS	SP	AE	ΕP	
		min	max	min	max	min	max	min	max	ΔΓ
PG2734	kPa	-98	1600	-100	1598	-100	1350	150	1600	1

 ΔP = step increment

11 Factory setting

	Factory setting	User setting
SP1	250	
rP1	248	
OU1	Hno	
OU2	l	
COF / tCOF	0.0	
ASP / tASP	0	
AEP / tAEP	1000	
Uni	kPA	
SELd	Р	
dS1	0.0	
dr1	0.0	
P-n	pnp	
dAP	0.06	
dAA	0.03	
dis	d2	
LED	SPRP	
CP1	0.00	
CP2	0.00	

* = the indicated percentage of the final value of the measuring range (VMR) of the corresponding sensor is set.

Further information at www.ifm.com

JK