



Two switching points and analog output

Monitoring sensor for gases and fluids

Linear current output 4...20 mA

Two programmable switching points

NC/NO programmable

Display rotatable



Design		DC • G3/4	
Dimensions			
Sensing range	[bar]	0...1 relative	0...16 relative
Output		2 x PNP NC/NO + 4...20 mA	
ID-No.		P72012	P72013
Type		DN 752 GAPP-01	DN 752 GAPP-16
Supply voltage	[V]	24 DC ±10%	
Current output	[mA]	4...20	
Switching current	[mA]	200	
Load R _L	[Ω]	0...400	
Current consumption	[mA]	20	
Ambient temperature	[°C]	-20...+70	
Medium temperature	[°C]	-20...+80	
Compressive strength	[bar]	16	64
Sensor material		AISI 316 Ti	
Material gauge head		Ceramic	
Sealing material		FPM	
Housing material		PBT	
Protection	[EN 60529]	IP 67	
Connection		M12 connector	
Accessories		Connection cable type SLG 4-2 (Z00445)	



Switching points and analog output

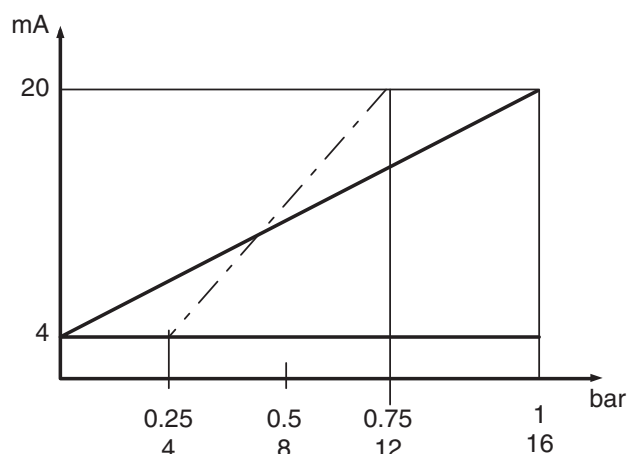
Additional technical data DN 752 GAPP...

Output analog	4...20 mA
Linearity	$\leq 0.2\%$ of maximum value
Temperature drift	$\leq 0.1\% / 10\text{ K}$ of maximum value
Long time drift	$\leq 0.1\% / \text{Year}$ of maximum value
Influence of supply voltage	$\leq 0.5\% / 10\text{ V}$ of maximum value
Input/output resolution	16 Bit
Alignment range	zero point 0% - 95% / final point 3,3% - 100%
Adjustment range of damping	0...30 seconds

Switching output

S1 / S2	PNP NO/NC programmable
Output voltage	$+U_B - 1.5\text{ V}$
Time delay	$< 8\text{ ms}$
Rise time	$< 400\text{ }\mu\text{s}$ with $R_L < 400\text{ }\Omega$ or $I_L > 4.5\text{ mA}$, respectively

Characteristics



Notice

Install signal and measurement wires separate from power-carrying wires. Use only shielded wires for signals and measurement. Ground the shield only on one side. Operate inductive loads like relays or auxiliary contactors (used to avoid voltage spikes) only with a recovery diode or a RC module.

Before installation, make sure that the sensor membrane's gasket is suitable for the medium you will use. Our factory provides a fluoroelastomer (FPM) gasket.

The sensor is delivered with pre-programmed default settings. You must first enter an access code if you wish to change the programmed parameters to meet your requirements. Please refer to the operating instructions manual for this code.

Default setting

The pressure sensor is programmed at the factory to enable immediate use with a default setting for the analogue output. The digital display shows the current pressure value.

Operational and display elements

The display has four digits and shows the current pressure during operation. The LEDs for the S1 (SP1) and S2 (SP2) switching points illuminate when the respective switch output is activated.

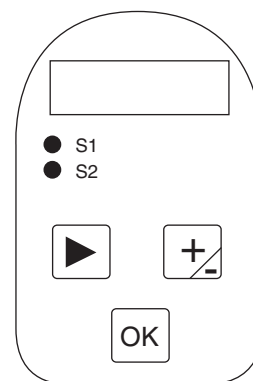
During the programming procedure, the LED display will show (alpha-numerically) either the numeral value just entered or the respective program step.

Front view

7 segment LED display

LED for each switching point

Keypad for programming



Program the sensor by means of the programming buttons:

- OK button:** Enter the submenu and accept the selected values.
- Arrow button:** Jumps from one spot in the menu to another. Changes the +/- button's direction of action. Changes the setting in a selection menu.
- +/- button:** Adjusts the displayed value. Hold this button depressed to run quickly through the values.

The operating instructions describe how to program the operational parameters.