program- step	input- range	function
P14	d0.0 •	delay time relay 1 0 sec. delay time
	d9.9	9.9 sec. delay time
P15		upper limit relay 2 adjustment just like before
P16		lower limit relay 2
P17		delay time relay 2

Default setting 1:					
C02 = 2 (2 measuring inputs) C03 = 0 (no relay) P01 = 0 P02 = 3	P03 = 2 P04 = 10.00 P05 = -10.00 P06 = 3.00	P07 = 0.00 P08 = 0 P09 = 1.6			
Default setting 2:					
C02 = 2 (2 measuring inputs) C03 = 0 (no relay) P01 = 0	P02 = 2 P03 = 2 P04 = 10.00	P05 = -10.00 P06 = 2.50 P07 = 0.00	P08 = 0 P09 = 1.6		
Default setting 3:					
C02 = 2 (2 measuring inputs) C03 = 1 (1 relay) P01 = 0 P02 = 2	P03 = 2 P04 = 10.00 P05 = -10.00 P06 = 4.00	P07 = 0.00 P08 = 0 P09 = 1.6 P10 = 0	P11 = 1 P12 = -0.05 P13 = 0.00 P14 = d0.0		
Default setting 4:					
C02 = 1 (1 measuring input) C03 = 0 (no relay) P01 = 0	P02 = 0 P03 = 2 P04 = 9.00	P05 = -1.00 P06 = 9.00 P07 = -1.00	P08 = 0 P09 = 0.4		
Default setting 5:					
C02 = 1 (1 measuring input) C03 = 1 (1 relay) P01 = 1 P02 = 1	P03 = 2 P04 = 4.00 P05 = 0 P06 = 4.00	P07 = 0.00 P08 = 0 P09 = 1.6 P10 = 0	P11 = 1 P12 = 0.00 P13 = 0.00 P14 = d0.0		
Default setting 6: flow-tronic					
C02 = 2 (2 measuring inputs) C03 = 0 (no relay) P01 = 0 P02 = 3 (in this default setting the display will	P03 = 2 P04 = 10.00 P05 = -10.00 P06 = 3.00 only show "-on-")	P07 = 0.00 P08 = 0 P09 = 1.6			
The parameters C02 and C03 are fixed by factory settings.					

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Operating instructions, digital manometer PDM 80



After power-up main voltage the device is working including limit comparison. The display consists of LED – digital readout, +/- 1999 with zero suppression. Display refreshes 2,5 times per second.

Limit setting

By pressing and holding the enter-button and additional pressing the arrow-up key, the limit can be set (P01=1). The upper left segment (f) of the left digital display is flashing and the LED S1 glowing. With the arrow-buttons the upper limit can be adjusted in the range of measurement. After confirm by pressing the enter-button the lower segment (e) is flashing and requests to enter the lower limit.

If the lower limit is greater than the upper limit the relay and the LED react in the opposite way.

After confirm by pressing the enter-button the relay delay d0.0...d9.9 can be adjusted.

By more than one relay inside then device, the procedure repeats. After the last request the device goes back to the measuring mode.

If the uppper and the lower limit are the same, the relay is without function.

If P01=0 the program-steps are the same as above, but the values can only be viewed and not be changed

The device will switch back to measuring mode, when the last button operation was 10 seconds ago.

Keyfunction in measuring mode

display of software release Pr. 1.8

Lenter | Torabout 3 sec. | Imit setting respectively check |

Zero adjust for digital display and analog output

display of static pressure pos. input for about 3 seconds.

display of static pressure neg. input for about 3 seconds. only if C02=2

error messages

Er01 = serial interface Er02 = faulty zero adjust

Er03 = faulty final value

Error messages above Er50 refer to system internal messages.

All error messages must be general confimed by pressing the enter-button or by switching off the main voltage.

BAPDM80/1.7

PDM 80 parameter mode

must be pressed.



To reach the parameter mode, the buttons must be pressed and holded and additional the button



The first parameter step will be displayed for about1 second. With the arrow-buttons the value can be adjusted and with the return-button the value will be stored and the display skips over to P02. After the last parameter step, the display starts again with P01. To leave this mode just press the buttons like it was done before to enter the parameter mode, after that the device will go back to measuring mode.

To change the values through wide ranges, it is useful to press and hold the arrow buttons for a while, because the values will change faster.

program- step	input- range	function
P00	0 1 2 3 4 5	fix default settings no default settings default setting 1 default setting 2 default setting 3 default setting 4 default setting 5
P01	0	authorization for limit settings parameter mode parameter and measuring mode
P02	0 1 2 3	analog output 020 mA/010 V 420 mA/210 V 020 mA/010 V at pos. &. neg. differential pressure 420 mA/210 V at pos. &. neg. differential pressure
P03	0 1 2 3	resolution digital display without decimal point 1 decimal point 2 decimal point 3 decimal point
P04	-1999 • 0 0 • 1999	final value digital display -1999 bar
P05	-1999 • 0 • 1999	start value digital display -1999 bar

program- step	input- range	function	
P06	-1999 • • 0 • 1999	final value analog output -1999 bar	
P07	-1999 • • 0 • • +1999	start value analog output -1999 0 + +1999	
P08	0	average value, and without average value	
P09	0.1 0.2 0.4 0.8 1.6 3.2	0.1 sec. 0.2 sec. 0.4 sec. 0.8 sec. 1.6 sec. 3.2 sec.	
P10	0	relay function operating current no-load current	
P11	0	average value rela without average val with average value	
P12	-1999 • • 0 • • 1999	upper limit relay 1 +1999 • • 0 0 • +1999	LED 1 glows and segment f is flashing
P13	-1999 • • 0 • 1999	lower limit relay 1 -1999	LED 1 glows and segment f is flashing