

## Processor Digital Display

dpm

### General Function

All functions of the processor-controlled digital display dpm can be changed by the operator via the front panel key pad and slider switches. Both the span of the LED display and the MAX/MIN alarms can be adjusted by means of the easy to use key pad and if necessary locked with a slider switch.

With the optional 2 or 4 alarm contacts smaller process controlling functions can be realized very easy, cost-saving and without any additional devices. Because of the splashproofed front the dpm is suitable excellently for applications in rough industrial environments.

### Features

- enclosure code IP 65
- optional 0/4-20mA analog output
- optional 2 or 4 alarms
- hysteresis adjustable
- sensor supply (if input -gs)
- lighted customized signal unit marking
- plug-in terminal blocks
- CE-registration



### Order Code

type-input	current output	supply volt.
dpm-pt	-sa	230V AC
dpm-gs		24V DC
dpm-p (pot.)	-sa	115VAC

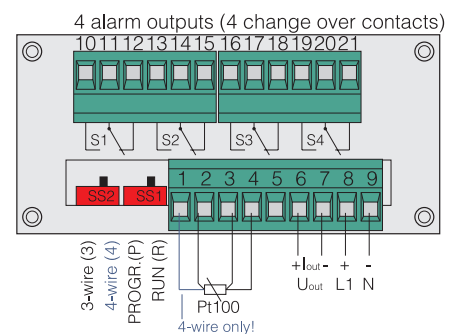
  

alarm modules	
dpm-2gw	2 changeover contacts in the basic device
dpm-4gw	4 changeover contacts in the basic device

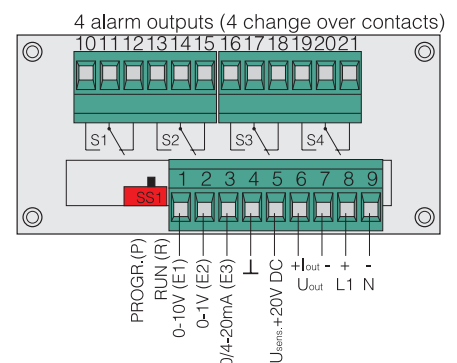
### Specification

Housing	panel mount case	96x48x130mm, 2 side mounting clips
Panel cutout	(WxH)	92x45mm tol. -0,5mm
Enclosure Code	front/rear	IP65/IP20
Ambient	operation temperat.	0...+50°C
	shelf temperat.	-20...+70°C
	humidity	0...95% no condensate
Input	Pt100	-100,0...+600,0°C
	current/ voltage	0/4-20mA (Ri 50Ω), 0-1V, 0-10V (Ri 50kΩ)
	potentiometer	0,1...10kΩ
Accuracy	and resolution	0,1% ±1 digit, 15 bit
	Display	7-segment
Sensor supply	short-circuit proof	approx. 25VDC 30mA max.
Supply voltage	AC	230V AC, 50Hz approx. 7VA
	DC	24V DC ±10% 0,3A max.
<b>Options</b>		
alarm outputs	2gw or 4gw	250V/3A AC changeover contacts
		hysteresis and function adjustable
Analog output -sa	current 0/4-20mA	12bit resolution max. burden resist. 500Ω
		free adjustable
		(voltage 0-10V special version)

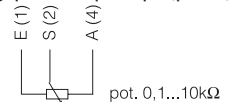
### Connecting plan dpm-pt (Pt100)



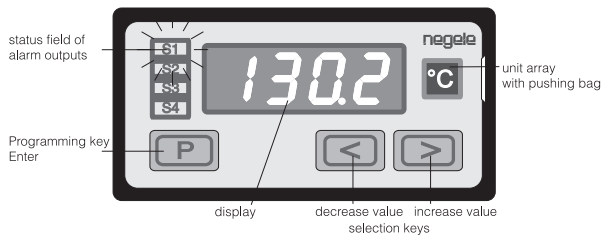
### Connecting dpm-gs (curr./ vltg.)



### Connecting plan dpm-p (pot.)



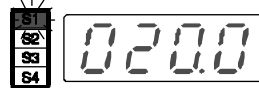
Service- and Displaying Elements



Information

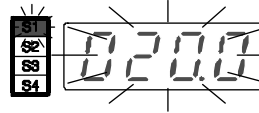
Set slider switch "SS1" for parameter setting to "P". After adjustment set "SS1" to "R" for protecting this program mode.

Displaying an Alarm Value (S1...S4)



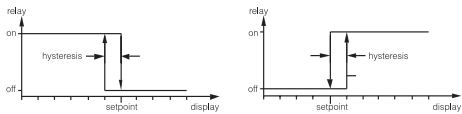
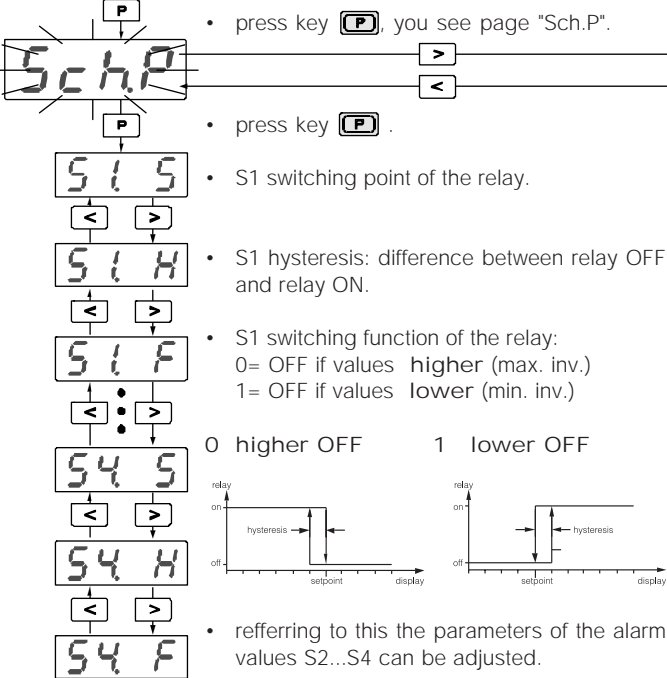
With keys (<) or (>) the values S1...S4 can be displayed. After 5 sec. device returns to the display mode.

Fast Setting an Alarm Value (S1...S4)

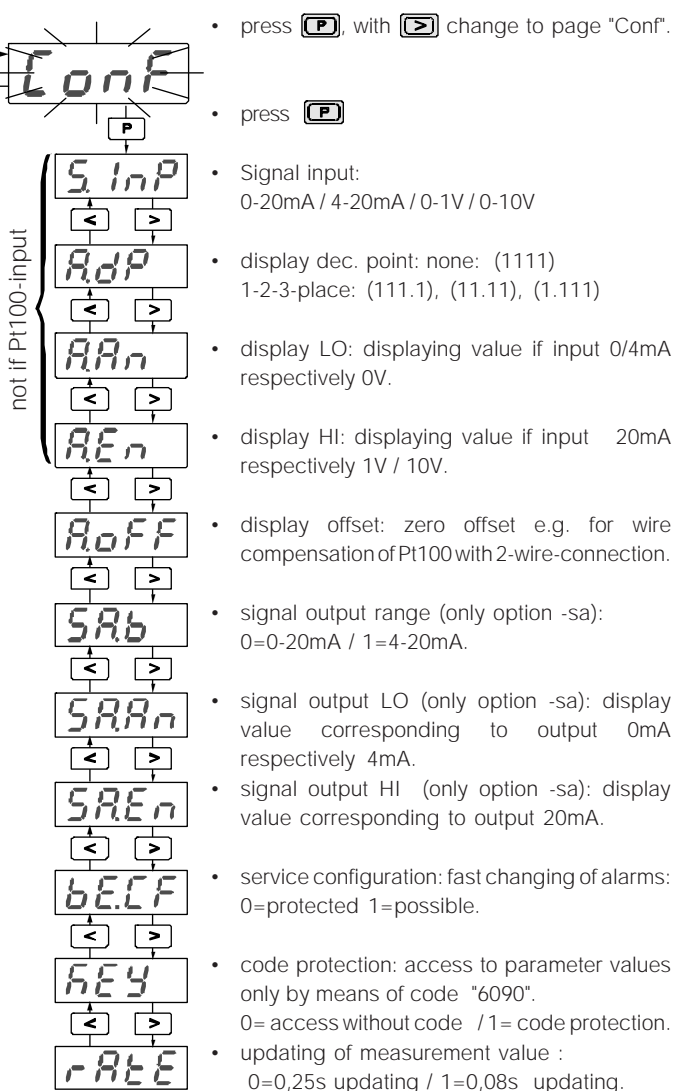


- select an alarm value (see above)
- Hold key **P** pressed and
- change with (<) or (>).

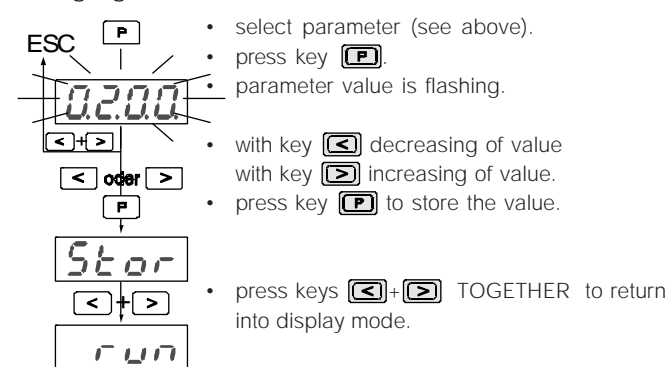
Parameter List for Switchpoint Setting



Parameter List Configuration



Changing a Parameter value



Display Informations

- Loc** • Program level locked. Set slider switch "SS1" to "P" (progr.).
- Code** • Settings are code protected. Free the parameters with code "6090". Then change.
- PAGE** • Select page between "Sch.P" and "Conf".
- run** • Back to display mode.
- ESC** • Escape: changed parameter value will be NOT saved.
- SEr** • Service page: display of program name, software version, resetting the parameters to delivery status (code 4095) possible.

Alarm Displays

- F.nEt** • power failure: supply voltage LO violated
- F.uEb** • display range HI violated, bigger than "9999".
- F.unb** • display range LO violated, smaller than "-.9999".
- F.SEn** • sensor failure: wire disconnection or short circuit of the sensor.
- F.InP** • input failure: input signal higher than defined input range.
- E.** • Error: internal failure. Error code will be displayed.