

Setpoint adjuster SG 4824

Current- and voltage output

Features

- 3-digit display 7.6mm red or green
- Adjustable display range -99 ... +999 digit
- Programmable decimal point
- Output 0... 20mA, 4 ... 20mA, 0...10V or 2 ... 10V (internal switch selectable)
- Setpoint adjustment by 20-turn potentiometer at the front panel
- Display range adjustable by 20-turn trimmer at the side of the case
- Supply voltage 10.8 ... 30V DC with isolation
- Plug-in screw terminal



General information

SG4824 is a setpoint adjuster for monitoring and control applications in process technology and automation. The small case is suitable for installation in control units and panel boards. The universal conception of the multipurpose output allows simulation and digital indication of any physical dimensions, which are stated as a signal of 0...20mA, 4...20mA, 0...10V or 2...10V DC. The corresponding display can be adjusted in the range from -99...+999 digit.

Short information

Programming Output configuration is selected with 6 internal DIP-switches

Adjustment 20-turn trimmer for output and display adjustment

Technical Data

Power supply

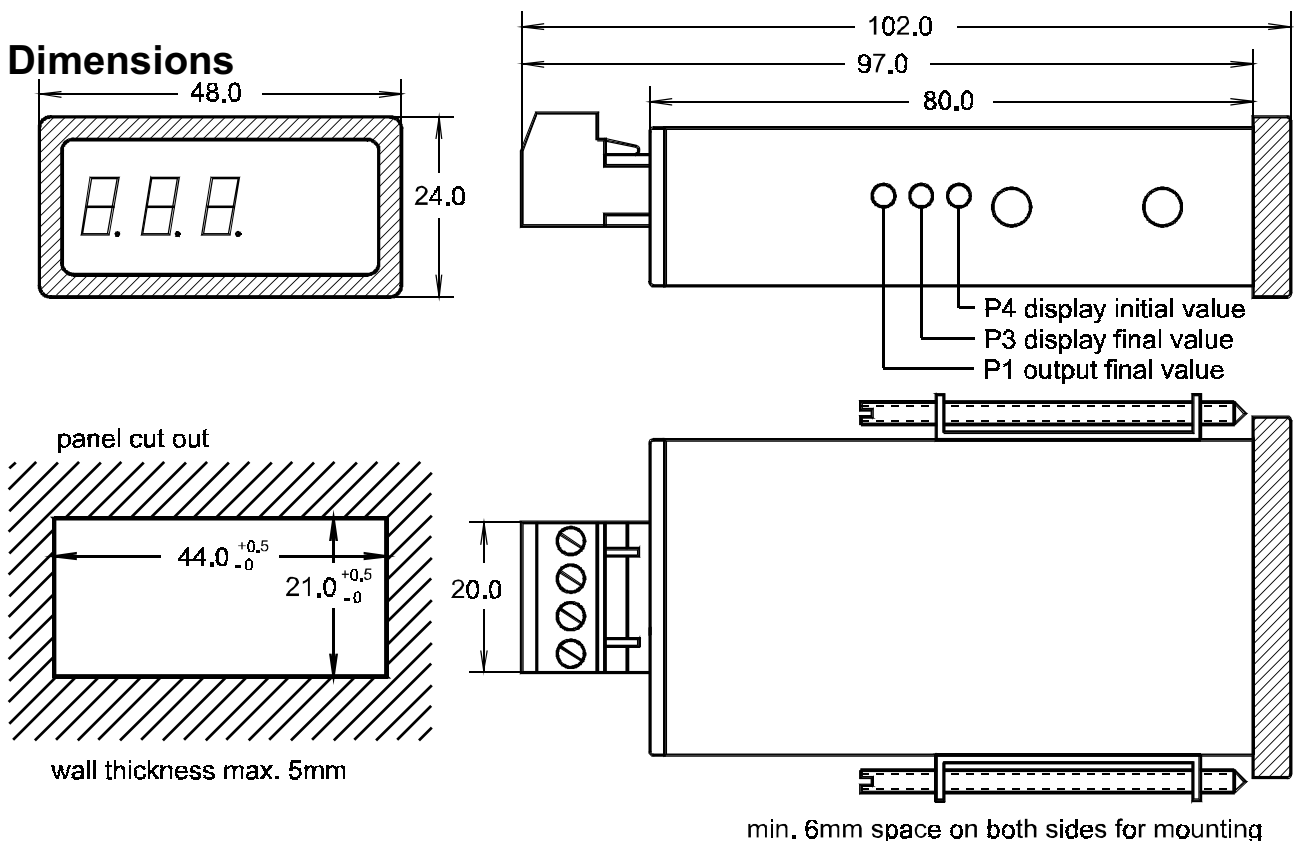
Supply voltage	: 10.8 ... 30V DC
Power consumption	: < 2VA
Working temperature	: -10 ... +50°C
Test voltage	: 500V DC output/supply voltage
CE-conformity	: EN55022, IEC1000-4-2/4/11

Output

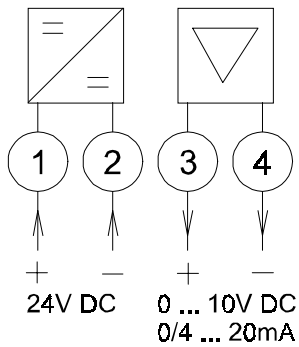
Voltage output	: 0/2 ... 10V	load $\geq 2k\Omega$ ($I \leq 5mA$)
Current output	: 0/4 ... 20mA	load $\leq 500\Omega$ ($U \leq 10V$)
Accuracy	: < 0.2% \pm 1 digit	
Temperature coefficient	: < 50ppm/°C	

Display

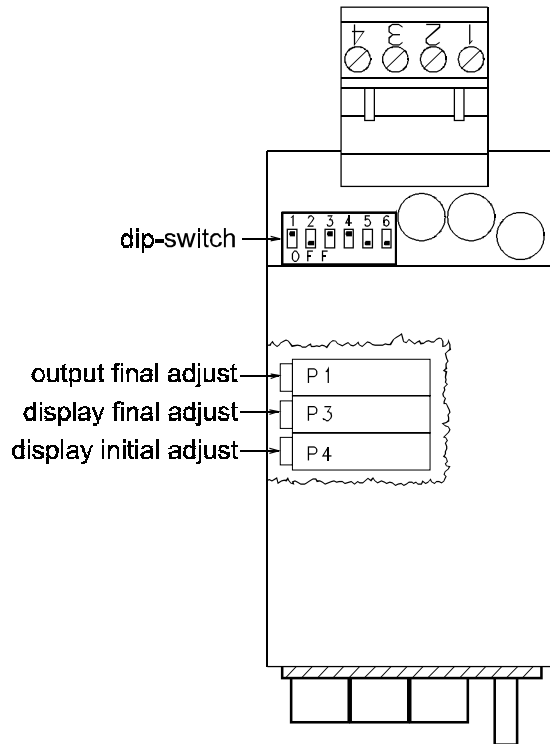
Range	: 3 digit red or green 7.6mm
Conversion rate	: 4/s
Decimal point	: switch selectable
Overflow indication	: “- - -” for neg. overflow “E E E” for pos. overflow
Case	: slide-in unit, according to DIN 43700 of Noryl GFN 2 SE 1
Weight	: approx. 100g
Connection	: plug-in screw terminals, max. 1.5mm ² , wire
Protection	: front IP50 adjusting screw type IP54 adjusting knob type, terminals IP20 finger safe acc. German VBG4



Connection diagram



Circuit board



Configuration

After removing the front frame, face plate and plug-in terminals, the circuit board can be pulled out of the case. Output signal and decimal point can be configured at the 6 pol. DIP-switch. See the next table.

Output signal

Output	S1	S2	S3	S4	Display-range
0 ... 10V DC	ON	OFF	ON	ON	free adjustable*
2 ... 10V DC	ON	OFF	OFF	ON	free adjustable
0 ... 20 mA	OFF	ON	ON	OFF	free adjustable
4 ... 20 mA	OFF	ON	OFF	OFF	free adjustable

Decimal point

S5	S6	Decimal point
OFF	OFF	no decimal point*
OFF	ON	<i>θ θ θ</i>
ON	OFF	<i>θ.θ θ</i>

* factory setting

Adjustment

After output-configuration, the display range would be adjusted as follows:

1. Output signal min.: front poti to the left stop → P4 display adjustment to the initial value
2. Output signal max.: front poti to the right stop → P3 display adjustment to the final value.

Order code

SG4824 - <table border="1"><tr><td>1.</td></tr></table> - <table border="1"><tr><td>2.</td></tr></table> - <table border="1"><tr><td>3.</td></tr></table> - <table border="1"><tr><td>4.</td></tr></table>	1.	2.	3.	4.
1.				
2.				
3.				
4.				

1.

Display
1: LED 7.6mm red 2: LED 7.6mm green

3.

Setpoint manipulation
1: Screwdriver; protection IP50 2: Rotary knob; protection IP54

2.

Type
1: Standard device 2: Special device (custom configuration on request)

4.

Unit of measurement
E.g. °C, °F, hPa, mV,kg ... and so on