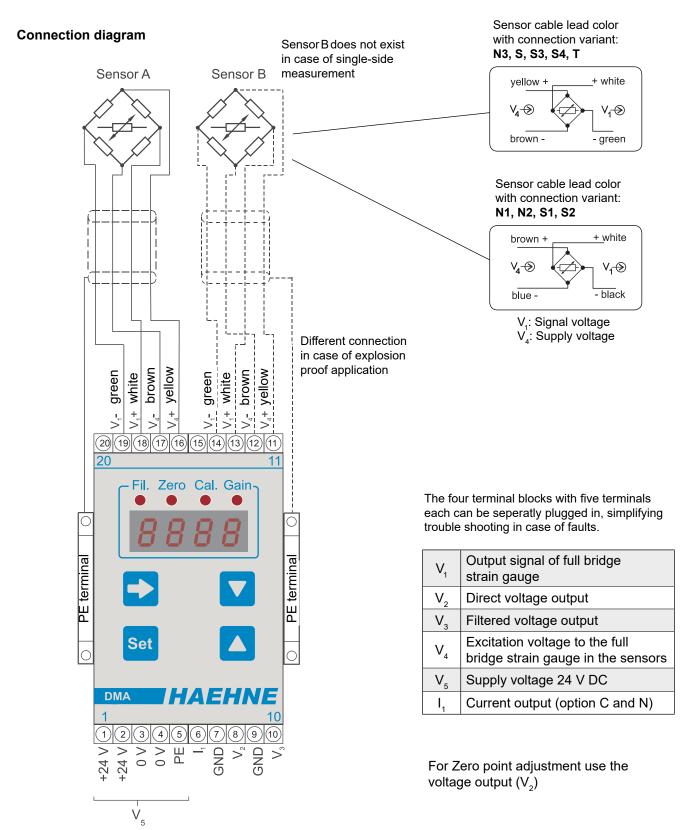


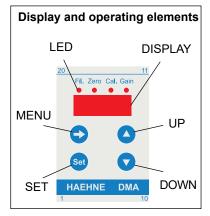
Digital Measuring Amplifier DMA3

Technical Information



Recommendation: Connect the PE-terminal No. 5 of the amplifier with a short cable with one of the separate PE-terminals on the DIN rail.





Adjustment instructions

- Apply power and select filter type (filtered/unfiltered), only option C and N.
- Allow 15 min warm-up time.
- After the sensors are completely mounted remove all material exerting an
 external force, except the forces acting under normal conditions. In case of web
 tension sensors this is the measuring roll without web, e. g. plastic,
 film, paper...
- Perform zero adjust.
- Apply force or weight of approximately 70 to 110 % of nominal value (as available). Adjust to corresponding value on the display and store.
- Remove force or weight and perform zero adjust if necessary.

Operating Instructions

To go to menu press sin+ simultaneously. However, sin need to be pushed first.						
1. Select menu point with	● LED blinks	Display	2. Ad- justing	3. Storing	Note	
Filter behaviour current output	Fil. ●	dir / Fil (direct/filtered)	00	Set > 4 sec	Fil. ● Is always ON is set to "filter	if current output red".
Zero point calibration	Zero •	-10.0100.0%		ir O	Enter a value differenthe two-point calibration	t from 0 in order to activate on.
Calibration with defined load	Cal. ●	Calibration weight 10.0110.0 %		Pressing the SET button illuminates the corresponding LED. The LED goes OFF after 4 seconds have elapsed and one can release the button. After that the LED is ON until the corresponding procedure is completed.	Recommendation: 70 - 110%. If the two-point calibration is activated then values higher than first calivbration point + 10% can be entered. If "Gain" appears on the display, then the necessary amoplification is out of the possible range. Under menu option "Gain" the necessary amplification is indicated. appears "zero" on the display, then the effective calibration weight is too small.	
Manual amplification adjustment	Gain •	Amplification factor 2504000	ge y utton	sponding Lease the bompleted.	With two point calibration and in unipolar output mode the zero point is to be adjusted again.	
Extended adjustment possibilities:			ran es b he b	orres rela		
Value display adjustments	Cal. Gain ● ●	range 100% = 100 2000. 10.0 200.0 1.00 20.00	The step range increasees by holding the button	inates the corresponding L and one can release the b procedure is completed	Standard: %-display (100 without decimal point) Actual value: display according to the selected dimensions with decimal (decimal point-display)	
Peak value display	Fil. Gain ● ●	real time	maximal	on illumin elapsed a onding p	Set key deletes the peak values. A change of the real time display and the output mode deletes also the peak values.	
Display intensity	all LED's ● ● ● ●	all segments	strongly weakly	SET butt ids have c		
Output mode	Zero Cal	bi / uni	bipolar o unipolar	Pressing the SET button illum after 4 seconds have elapsed ON until the corresponding		±100% = ± 10V 0 - 100% = 4(0) - 20mA ±100% = 0 - 10V ±100% = 4(0) - 20mA ts, therefore the calibration the appropriate selection.

The menu is deactivated if no button is pressed within 20 seconds. Exit from the menu by pressing the key several times. If the maximum output voltage during normal operating conditions is overloaded to approx. (-)12 volts the (-)OFL display will appear. Interrupted sensor cables lead to the IOFL display. During the adjustment procedure the display OFL has no special meaning.

DMA3 TIEN 02_19.indd

Technical modification reserved