

DA13-NA / DA20-NA / DA25-NA / DA40-NA

Programming instruction digital panelmeters with analogue input (Version 08/2002)

The k Switc Key Key Key	keys and ch S1: T1: T2: T3:	the switch are available behind the front glass. changes between normal and programming mode (menu-point display indicates). selects the menu-point (MP). carries out the adjustment of the selected digit. selects the programming digit (is shown by the luminous decimal point). <u>Special function:</u> The final value of display is assigned to MP 1 + 3 by using of key T3 after the minimal and maximal input signal is connected.
MP	Display	Function/Description
0		Adjustment of the minimal value of display The minimal value of display must be positive (> 0). If you need a negative one please adjust the display to the value « 0 0 0 » and connect under MP 1 the belong input signal.
1	P – L	Take-over of the minimal input signalConnect the minimal input signal with the back connector plug.Press the key T3 and the minimal value of display adjusted under MP 0 will be assigned to the minimalinput signal. The display indicates « $P - L$ ».
2		Adjustment of the maximal value of display If need a decimal point you have to place it on the right position before leaving this menu-point. If you have a meter with a display of 3 ½ or 4 ½ digits you can choose: = negative value with sign, positive value without sign = negative value without sign, positive value with sign. + /- = negative and positive value with sign. = negative and positive value without sign
3	P – H	Take-over of the maximal input signal Connect the maximal input signal with the back connector plug. Press the key T3 and the maximal value of display adjusted under MP 2 will be assigned to the maximal input signal. The display indicates « $P - H$ ».
4		Adjusted value Adjustment of the average value of 01 - 500 measurements. It will be shown on the display.
5		Roundness of the last digit This value effects only the display. Without (0) or in 2 (2), 5 (5), 10 (10) steps
6	0 0	Reciprocal value of display (0 = off, 1 = on). Line break indication (0 = on, 1 = on), only by input 4-20mA. If the value falling 25% below measured value (< 3mA), the display indicates « – – » Analogue output 0/4-20mA (0 = 0-20mA, 1 = 4-20mA), only by option " 2 "



Only by option : " 7 " (1 Switching point), " 8 " (2 Switching points), " R " (2 Relay outputs): MP Display Function / Description 7 Switching point S1, upper trigger level (indicator value) 8 Switching point S1, lower trigger level (indicator value) 9 0 Switching point S1, (0 = off, 1 = on) Working current, Max-Contact (by exceed of the switching point - Relay tightend, LED on) 0_ Quiescent current, Max-Contact (by exceed of the switching point - Relay drop, LED on) 1_ Working current, Min-Contact (by fall below of the switching point - Relay tightend, LED on) _ 2 _ 3_ Quiescent current, Min-Contact (by fall below of the switching point: - Relay drop, LED on) 0___ Display flashes not, if relay is tightend 1__ Display flashes, if relay is tightend Α Switching point S2, upper trigger level (indicator value) Switching point S2, lower trigger level (indicator value) b С 0 Switching point S2, (0 = off, 1 = on) 0_ Working current, Max-Contact (by exceed of the switching point - Relay tightend, LED on) Quiescent current, Max-Contact (by exceed of the switching point - Relay drop, LED on) _1_ _2_ _3_ Working current, Min-Contact (by fall below of the switching point - Relay tightend, LED on) Quiescent current, Min-Contact (by fall below of the switching point: - Relay drop, LED on) 0 Display flashes not, if relay is tightend Display flashes, if relay is tightend



Only by option: " S " (Serial Output RS232):

MP Display	Funktion
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Transmission rate 150 Baud 300 Baud 600 Baud 1200 Baud 2400 Baud 4800 Baud 9600 Baud 19200 Baud 19200 Baud Parity check Vithout parity bit, Without parity bit, 8 Data bit Parity even, 7 Data bit Parity even, 7 Data bit Parity odd, 7 Data bit Parity odd, 8 Data bit Parity odd, 8 Data bit Parity odd, 8 Data bit Sign, amount STX / sign / amount / ETX SOH / address / STX / sign / amount / ETX
80 1 2 _1 1 1	Request for transmission switched off Address (Device send after receipt of STX / the adjusted address) STX / addresse / ETX (Device send after receipt of STX / the adjusted address / ETX) Device address Address 10 ⁰ Address 10 ¹