

NA6 Digital Meter With Bargraph

Feature













Inputs













outputs









Galvanic Isolation









Trading Estate, evon, England, TQ27BB

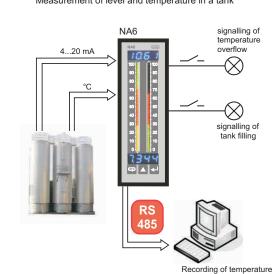




- 2 independend measuring channels with an universal input,
- 3 or 7-colour bargraph with programmable colour switching over,
- Recording of 750 measuring segments, released temporary,
- Programmable indication characteristic and bargraph magnifier,
- Up to 8 programmable alarm outputs,
- Mathematical operations on channels,
- Communication in SCADA systems (RS485/Modbus interface),
- Conversion of measured quantity into an analog standard signal for automation systems.

Example of application

Measurement of level and temperature in a tank



	Inputs	
Kind of input	Measuring range	Measurement subrange
Pt100	-200850°C	320°C
Pt500	-200850°C	230°C
Pt1000	-200850°C	290°C
J (Fe-CuNi)	-1001100°C	350°C, 700°C
K (NiCr-NiAl)	-1001370°C	450°C, 950°C
N (NiCrSi-NiSi)	-1001300°C	550°C, 1000°C
E (NiCr-CuNi)	-100850°C	250°C, 520°C
R (PtRh13-Pt)	01760°C	
S (PtRh10-Pt)	01760°C	
T (Cu-CuNi)	-50400°C	
Resistance	010 kΩ	110 Ω, 220 Ω, 460 Ω, 950 Ω, 2100 Ω, 5000 Ω,
Voltage	± 300 mV, Rinp. > 9 MΩ ± 0600 V, Rinp. > 4.2 MΩ	19 mV, 35 mV, 75 mV, 155 mV, 5 V, 11 V, 22 V, 45 V, 90 V, 180 V, 360 V
Current	\pm 40 mA, Rinp. < 4 Ω \pm 5 A, Rinp. = 10 mΩ \pm 10%	5 mA, 11 mA, 23 mA, 1.8 A, 3.8 A

Intensity of current flowing through the resistance thermometer: < 400 μA Resistance of wires connec?ng the resistance thermometer with the meter: $< 20 \Omega/1$ wire

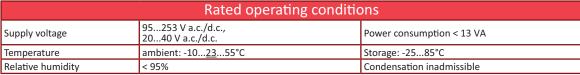
	Outputs
Kind of output	Features
Analog output	• galvanically isolated with resolu?on 0.025% of range; current programmable 0/420 mA, load resistance \leq 500 Ω or voltage programmable 010 V, load resistance \geq 500 Ω , output response time: 100 ms.
Relay output	4 electromagnetic relays; NOC voltageless contacts, maximal load-carrying capacity: - voltage: 250 V a.c., 150 V d.c. - current: 5 A 30 V d.c., 250 V a.c. - resistance load: 1250 VA, 150 W
Open collector (OC) type	voltageless of OC type with npn transistor, maximal load: 25 mA, range of appended voltages: 530 V d.c.
Digital	• interface type: RS-485; transmission protocol: MODBUS ASCII (8N1, 7E1, 7O1), RTU (8N2, 8E1, 8O1, 8N1); baud rate: 2400, 4800, 9600 bit/s
Additional supply output	• 24 V d.c., maximal load 20 mA

l faaturas

external reduces							
	2 X 4 LED displays	7-segment digits of 7 mm high, measuring range -19999999					
Readout field	bargraph	bargraph of 88 mm length: - 48 segments in three-colour version - 27 segments in seven-colour version					
		Bargraph resolution: programmable					
		Bargraph accuracy: ± 0.5 segment					
Weight	< 0.4 kg						
Overall dimensions	48 X 144 X 100 mm	panel cut-out: 44 ^{+0,5} ′ 137.5 ^{+0,5} mm					
Protection grade (acc. to EN 60529)	IP50 from frontal side	IP20 from terminal side					



NA6 Digital Meter With Bargraph



	Safety and compatibility requirements				
Electromagnetic compatibility	noise emissions acc. to EN 61000-6-4				
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Pollution grade Installation category	2				
	III				
	input: 600 V				
	supply: 300 V	acc. to EN 61010-1			
Maximal phase-to-earth operating voltage	relays: 300 V				
Voltage	analog output: 50 V	7			
	RS-485: 50 V				

Table 1. Execu	ıti	on	со	de						
Digital Panel Meter with Bargraph - RNA6	х	ΧХ	Х	Х	Х	Х	Х	Х	хх	Х
Bargraph colour:										
Three-colour (R, G, R+G)	Т									
Seven-colour										
(R, G, B, R+G, R+B, G+B, R+G+B)	И									
Display colour on channels 1 and 2:										
Without display*		00								
Red-red		RR								
Red-green		RG								
Red-blue		RB								
Green-red		GR								
Green-green		GG								
Green-blue		GB								
Blue-red		BR								
Blue-green		BG								
Blue-blue		ВВ								
Input signal:										
Universal input			U							
Analog output signal:										
Lack				0						
Current programmable 0/420 mA				1						
Voltage programmable 010 V				2						
Digital output signal:										
Lack					0					
RS-485 output signal					_1					
Additional output:										
Lack*						0				
4 relays						4				
8 outputs of OC type						8				
Supply:										
95253 V AC / DC							1			
2040 V AC / DC							2			
Kind of terminals: Screwed plug-in sockets								0		
Version:										
Standard									00	
Custom-made**									XX	
Acceptance tests:										
Without an extra quality inspection certifi cate	e									8
With an extra quality inspection certificate										7
Acc. to customer's request**										Χ

- * in case of meters without displays, one must order an RS-485 digital output
- ** after agreeing with the manufacturer

Ordering Example:

The code: **NA6 - M GB U 1 1 4 1 0 00 8** means:

NA6 - digital meter with bargraph of NA6 type,

M - with a seven-color bargraph,

GB - green-blue display color on channel 1 and 2,

U - with an universal input signal,

- 1 analog programmable output signal: 0/4...20 mA,
- RS-485 output signal,
- 4 with additional 4 relays digital output signal,
- supply voltage: 95...253 V a.c./d.c.,
- terminals of plug-in socket type,
- 00 standard version,
- 8 without extra quality requirements.

Connection diagrams

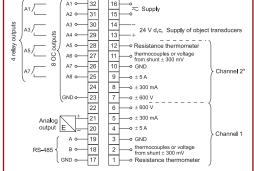


Fig. 1 Description of the terminal strip.

Channel 2 10 11 12

Channel 2 10 11 12

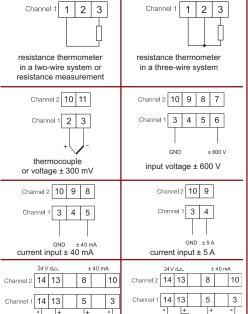


Fig. 2 Connection way of input signals.

three-wire object transducer

two-wire object transducer

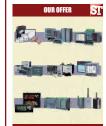
See Also



Temperature and humidity transducers P18 i P18L types.



N30 digital meters with a 3-colour display and free LPConfi g program.



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