	ΝΔ6		METER WITH B	ARGRAPH		LUMEL	
FEATURES: MOD BUS Linear Charac Charac Case Case Case Case Case Case Case Case			5000           80	2 independend r 3 or 7-colour bar switching over, Recording of 75C Programmable ir magnifier, Up to 8 program Mathematical op Communication	neasuring channels wit graph with programma ) measuring segments, ndication characteristic mable alarm outputs, perations on channels, in SCADA systems (RS4 easured quantity into a ation systems.	able colour released temporary, and bargraph 85/Modbus interface),	
	Example of application			INPUTS			
		LL OF AP		Kind of input	Measuring range	Measurement subrange	
	Measurement o	f level and ter	mperature in a tank	Pt100	-200850°C	320°C	
				Pt100 Pt500	-200850 C	230°C	
		NA6	signalling of	Pt1000	-200850 °C	290°C	
mA V	420 mA			J (Fe-CuNi)	-1001100°C	350°C, 700°C	
				K (NiCr-NiAl)	-1001370°C	450°C, 950°C	
60 mV 010							
				N (NiCrSi-NiSi)	-1001300°C	550°C, 1000°C	
				E (NiCr-CuNi)	-100850°C	250°C, 520°C	
	a a signalling of tank filling			R (PtRh13-Pt)	01760°C		
				S (PtRh10-Pt)	01760°C		
OUTPUTS:		10 1	o tank ming	T (Cu-CuNi)	-50400°C		
020 010		7344		Resistance	010 kΩ	110 Ω, 220 Ω, 460 Ω, 950 Ω, 2100 Ω, 5000 Ω,	
	RS 485			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	± 40 mA, Rinp. < 4 Ω ± 5 A, Rinp. = 10 mΩ ± 10%	5 mA, 11 mA, 23 mA, 1.8 A, 3.8 A	
	Recording of temperature and level parameters         Intensity of current flowing through the resistance thermometer we meter: < 20 Ω/1 wire						
			OI	JTPUTS			
GALVANIC	Kind of output	Features	00	,11013			
	Analog output	• galvanically isolated with resolution 0.025% of range; current programmable 0/420 mA, load resistance $\leq 500 \Omega$ or voltage programmable 010 V, load resistance $\geq 500 \Omega$ , output response time: 100 ms.					
	Relay output	<ul> <li>• 4 electromagnetic relays; NOC voltageless contacts, maximal load-carrying capacity:</li> <li>• voltage: 250 V a.c., 150 V d.c.</li> <li>• current: 5 A 30 V d.c., 250 V a.c.</li> <li>• resistance load: 1250 VA, 150 W</li> </ul>					
	Open collector		ss of OC type with npn trans	istor, maximal load	l: 25 mA,		
	(OC) type	range of a	appended voltages: 530 V	d.c.			
→ C RS Supply 485	Digital	yital • interface type: RS-485; transmission pr baud rate: 2400, 4800, 9600 bit/s			5 ASCII (8N1, 7E1, 7O1), R	FU (8N2, 8E1, 8O1, 8N1);	
Lack of galvanic isolation between channels	Additional supply output • 24 V d.c., maximal load 20 mA						
Export department: English: +48 68 32 95 302 / 321 / 276 / 386 / 233	EXTERNAL FEATURES						
	$2 \times 4$ LED displays			7-segment digits of 7 mm high, measuring range -19999999			
				bargraph of 88 mm length:			
German: +48 68 32 95 305				- 48 segments in three-colour version			
German: +48 68 32 95 305 French: +48 68 32 95 304	Readout field			- 27 segments in seven-colour version			
German:+48 68 32 95 305French:+48 68 32 95 304Russian:+48 68 32 95 321Fax:+48 68 32 54 091	Readout field		bargraph	-			
German:         +48 68 32 95 305           French:         +48 68 32 95 304           Russian:         +48 68 32 95 321           fax:         +48 68 32 54 091           e-mail:         export@lumel.com.pl	Readout field		bargraph .	Bargraph resolutio			
German: +48 68 32 95 305           French: +48 68 32 95 304           Russian: +48 68 32 95 321           fax: +48 68 32 54 091           -mail: export@lumel.com.pl           UMEL S.A.				-	on: programmable		
German: +48 68 32 95 305 French: +48 68 32 95 304 Russian: +48 68 32 95 321 Fax: +48 68 32 54 091 +mail: export@lumel.com.pl .UMEL S.A. Jl. Sulechowska 1	Readout field Weight		bargraph < 0.4 kg	Bargraph resolutio	on: programmable		
German: +48 68 32 95 305 French: +48 68 32 95 304 Russian: +48 68 32 95 321			< 0.4 kg	Bargraph resolutio	on: programmable r: ± 0.5 segment		

## UME **NA6** DIGITAL METER WITH BARGRAPH RATED OPERATING CONDITIONS 95...253 V a.c./d.c., Supply voltage Power consumption < 13 VA 20...40 V a.c./d.c. SEE ALSO: Temperature ambient: -10...<u>23</u>...55°C Storage: -25...85°C Relative humidity < 95% Condensation inadmissible SAFETY AND COMPATIBILITY REQUIREMENTS noise immunity acc. to EN 61000-6-2 Electromagnetic compatibility noise emissions acc. to EN 61000-6-4 Pollution grade 2 A CETA ш Installation category input: 600 V supply: 300 V acc. to EN 61010-1 Temperature and Maximal phase-to-earth operating humidity transducers P18 i P18L types. relays: 300 V voltage analog output: 50 V RS-485: 50 V TABLE 1. EXECUTION CODE: **CONNECTION DIAGRAMS** NA6 - X x xx x ΧХ Х х х Х Х Δ1 c 32 Bargraph colour: 🗢 Supply A2 0 15 three-colour (R, G, R+G) т A3 0-14 30 seven-colour 24 V d.c. Supply of object transducers 29 A4 0 13 (R, G, B, R+G, R+B, G+B, R+G+B) М Resistance thermometer A5 o-28 12 N30 digital meters Display colour on channels 1 and 2: thermocouples or voltage from shunt ± 300 mV GND A6 0-11 0000 with a 3-colour display without display\* 00 10 A7 c 26 and free LPConfig Channel 2\* red-red RR 9 25 --**o** ± 5 A program. -o ± 300 mA red-green RG 24 8 7 RB red-blue -o ± 600 V GR green-red 22 6 -o ± 600 V GG -o ± 300 m/ green-green 5 21 Ana**l**og output green-blue GB 4 -o±5A Channel 1 - GND blue-red BR 19 3 thermocouples or voltage from shunt ± 300 mV 18 2 blue-green BG RS-485 вс 17 1 Resistance thermometer blue-blue BB Input signal: universal input U Fig. 1 Description of the terminal strip. Analog output signal: Visualization programs lack 0 enabling to build current programmable 0/4...20 mA 1 distributed control and voltage programmable 0...10 V measuring systems Digital output signal: Channel 2 10 11 12 Channel 2 10 11 12 like: LUMEL-CONTROL, 0 lack LUMEL-PROCES, RS-485 output signal Channel 1 1 2 Channel 1 1 2 3 3 LUMEL3000. Additional output: lack\* 0 4 relays 4 8 outputs of OC type 8 resistance thermometer resistance thermometer OUR OFFER Supply: in a two-wire system or in a three-wire system 95...253 V a.c./d.c. 1 resistance measurement 20...40 V a.c./d.c. 2 Kind of terminals: Channel 2 10 9 8 7 Channel 2 10 11 screwed plug-in sockets 0 Version: Channel 1 2 3 Channel 1 3 4 5 6 standard 00 custom-made\*\* xх Acceptance tests: GND + 600 V without an extra quality inspection certificate 8 thermocouple input voltage ± 600 V with an extra quality inspection certificate 7 or voltage ± 300 mV www.lumel.com.nl acc. to customer's request\*\* Channel 2 10 9 For more information Channel 2 10 9 8 about LUMEL's \* - in case of meters without displays, one must order an RS-485 digital output Channel 1 3 4 Channel 1 3 4 5 products please visit \*\* - after agreeing with the manufacturer our website: www.lumel.com.pl GND ±5A GND ±40 mA current input ± 40 mA current input + 5 A 24 V d c + 40 m4 Channel 2 14 13 10 Channel 2 14 13 10 8 8 Export department: English: +48 68 32 95 **Ordering Example:** Channel 1 14 13 5 3 Channel 1 14 13 5 3 302/321/276/386/233 + The code: NA6 - M GB U 1 1 4 1 0 00 8 means: German: +48 68 32 95 305 French: +48 68 32 95 304 NA6 - digital meter with bargraph of NA6 type, M - with a seven-color bargraph, Russian: +48 68 32 95 321 GB +48 68 32 54 091 Fax:

- green-blue display color on channel 1 and 2,
- with an universal input signal, U
- analog programmable output signal: 0/4...20 mA, 1
- RS-485 output signal, 1
- with additional 4 relays digital output signal, 4 1
- supply voltage: 95...253 V a.c./d.c., 0 - terminals of plug-in socket type,
- 00 - standard version
- 8 - without extra quality requirements.

NA6-19D/2

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three-wire object transducer

Fig. 2 Connection way of input signals.

two-wire object transducer