



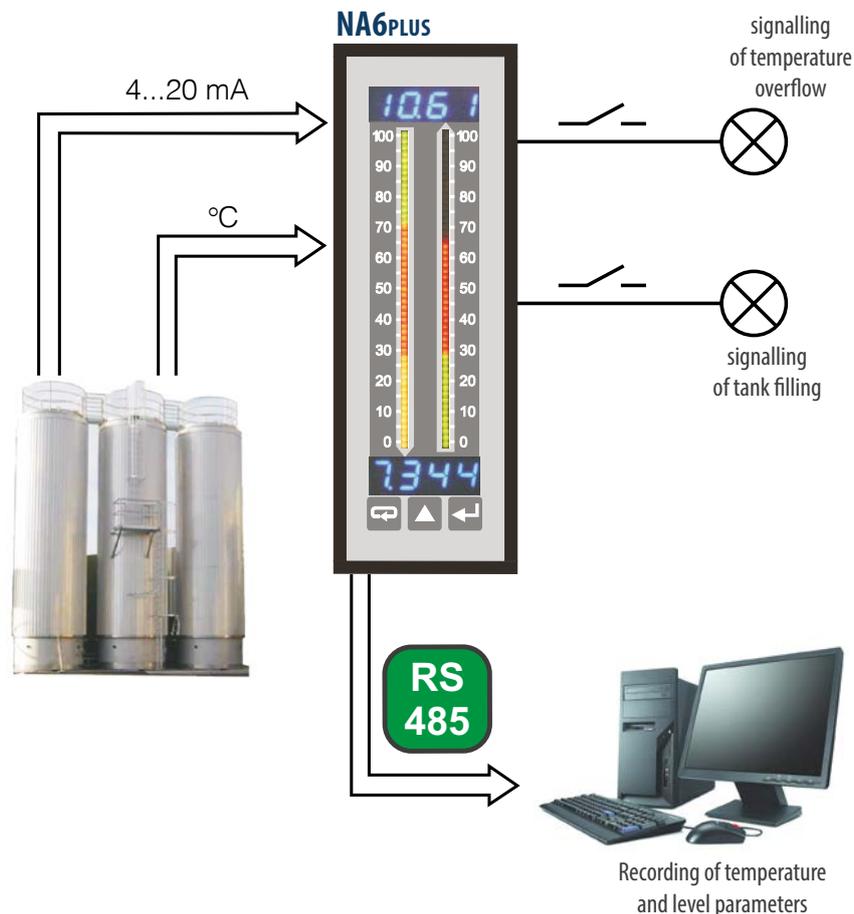
NA6PLUS - DIGITAL METER WITH BARGRAPH

- 3 or 7-colour bargraph with programmable colour switching over.
- Logging of the measured signal in programmed time intervals (800 samples).
- 2 independent measuring channels with universal input.
- Programmable indication characteristic (21-point rescaling) and bargraph magnifier.
- Up to 8 programmable alarm outputs.
- Alarm triggered by the rate of change of the measured signal over time.
- Mathematical operations on channels.
- Communication in SCADA systems (RS485/Modbus interfaces).
- Conversion of any measured value into a current or voltage analog signal.



EXAMPLE OF APPLICATION

Level and temperature measurement in the tank.



FEATURES	INPUTS	OUTPUTS	GALVANIC ISOLATION

TECHNICAL DATA

INPUTS				OUTPUTS			
Input type	Measurement range	Basic error	Additional error	Output type	Features		
Pt100	-200...850°C	0.1%	compensation of temperature changes of reference welds $\leq \pm 1^\circ\text{C}$	Current analog output	1 or 2 programmable 0/4...20 mA; load resistance $\leq 500 \Omega$		
Pt500	-200...850°C			Voltage analog output	1 or 2 programmable 0-10 V; load resistance $\geq 500 \Omega$		
Pt1000	-200...850°C			Relay output	4 relays; NOC voltageless contacts, maximal load: - voltage: 250 V a.c., 150 V d.c. - current: 5 A 30 V d.c., 250 V a.c.		
J (Fe-CuNi)	-100...1100°C			0.2%	compensation of cable resistance changes - when changing the resistance of wires $< 10 \Omega$ the error is $\leq \pm 0.5^\circ\text{C}$ - when changing the resistance of wires $< 20 \Omega$ the error is $\leq \pm 1^\circ\text{C}$	Open collector (OC) type	8 outputs of OC type: maximal load: - voltage: 5...30V d.c. - current: 25mA d.c.
K (NiCr-NiAl)	-100...1370°C					Digital interface	interface type: RS-485; transmission protocol: MODBUS, RTU (8N2, 8E1, 8O1, 8N1) baud rate: 2400, 4800, 9600, 19200, 57600, 115200 b/s
N (NiCrSi-NiSi)	-100...1300°C					Additional supply output	24 V d.c., maximal load 30 mA
E (NiCr-CuNi)	-100...850°C	0.1%	change in ambient temperature $\leq \pm 0.1\%$ of the range				
R (PtRh13-Pt)	0...1760°C						
S (PtRh10-Pt)	0...1760°C						
T (Cu-CuNi)	-50...400°C						
Resistance	0...10 kΩ						
Voltage	$\pm 75 \text{ mV}$, $R_{\text{inp.}} > 100 \text{ k}\Omega$ $\pm 300 \text{ mV}$, $R_{\text{inp.}} > 100 \text{ k}\Omega$ $\pm 0...600 \text{ V}$, $R_{\text{inp.}} > 3.5 \text{ M}\Omega$						
Current	$\pm 40 \text{ mA}$, $R_{\text{inp.}} < 4 \Omega$ $\pm 5 \text{ A}$, $R_{\text{inp.}} = 10 \text{ m}\Omega \pm 10\%$						

Intensity of current flowing through the resistance thermometer: $< 400 \mu\text{A}$

Resistance of wires connecting the resistance thermometer with the meter: $< 20 \Omega/1 \text{ wire}$

EXTERNAL FEATURE

Readout field	2 x 4 -digits LED display bargraph	7-segment digits of 7 mm high, measuring range -1999...9999 bargraph of 100 mm length: - 55 segments in three-colour version - 28 segments in seven-colour version Bargraph resolution: programmable
Overall dimensions	48 x 144 x 100 mm	
Weight	$< 0.4 \text{ kg}$	panel cut-out: 44+0.5 x 137.5+0.5 mm
Protection grade (acc. to EN 60529)	from frontal side: IP50	from terminal side: IP20

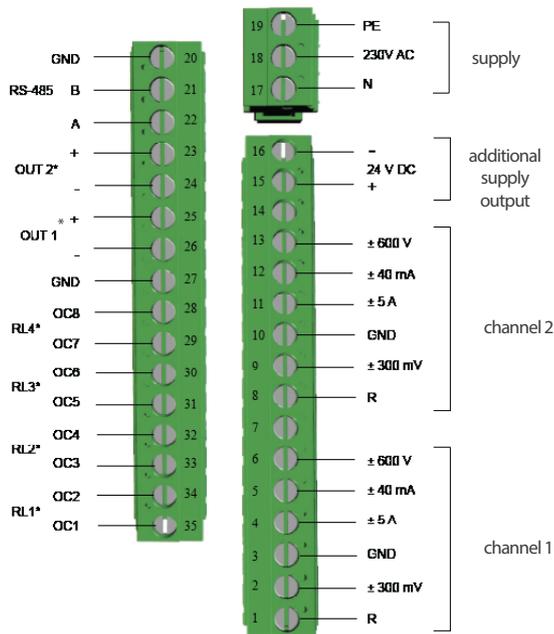
RATED OPERATING CONDITIONS

Supply voltage	95...253 V a.c. 40...400 Hz; 90...300 V d.c. 20...40 V a.c. 40...400 Hz, 20...60 V d.c.	power consumption $\leq 13 \text{ VA}$
Temperature	ambient: -10...23...55°C	storage: -25...85°C
Relative humidity	$< 95\%$	Condensation inadmissible

SAFETY AND COMPATIBILITY REQUIREMENTS

Electromagnetic compatibility	noise immunity	acc. to EN 61000-6-2
	noise emissions	acc. to EN 61000-6-4
Pollution grade	2	acc. to EN 61010-1
Installation category	III	
Maximal phase-to-earth operating voltage	<ul style="list-style-type: none"> for input circuit: 600 V for supply circuit: 300 V for other circuits: 50 V 	
Altitude above sea level	$< 2000 \text{ m}$	

ELECTRICAL CONNECTIONS



*-optional elements depend on the meter's version

Fig. 1 Description of the terminal strip.

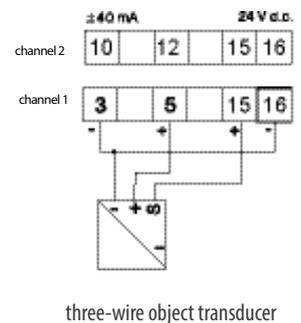
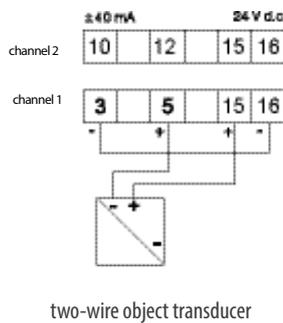
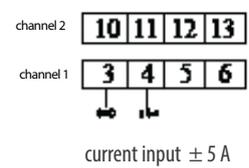
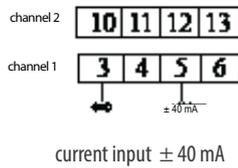
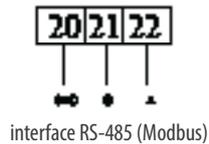
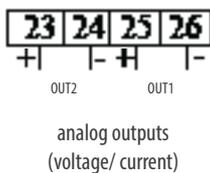
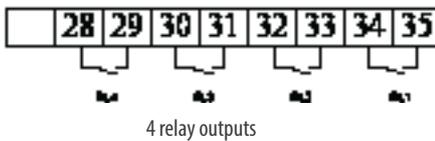
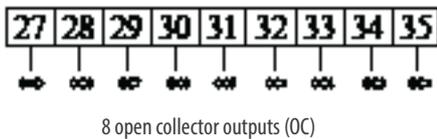
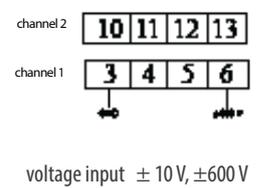
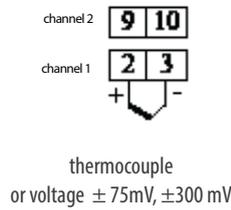
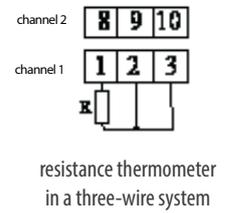
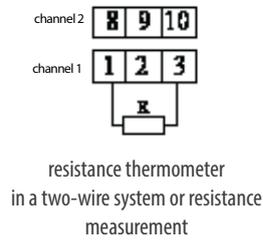


Fig.3. Connection way of output signals depending on the execution code.

Fig. 2 Connection way of input signals.

ORDERING

NA6PLUS -	X	XX	X	X	X	X	XX	E	X
Bargraph colour:									
3-colour(R, G, R+G)		T							
7-colour (R, G, B, R+G, R+B, G+B, R+G+B)		M							
Display colour on channels 1 and 2:									
red-red		RR							
red-green		RG							
green-red		GR							
green-green		GG							
Input signal:									
universal input							U		
custom-made*							X		
Analog output:									
lack								0	
0/4...20mA								1	
0...10 V								2	
2 x 0/4...20 mA								3	
2 x 0...10 V								4	
1 x 0/4...20 mA, 1 x 0...10 V								5	
Additional output:									
lack								0	
4 relays								4	
8 outputs of OC type								8	
Supply voltage:									
95...253 V a.c./d.c.									1
20...40 V a.c., 20...60 V d.c.									3
Version:									
standard									00
custom-made**									XX
Language:									
English									E
Acceptance tests:									
without extra requirements									0
with an extra quality inspection certificate									1
acc. to customer's request**									X

Ordering example:

The code **NA6PLUS- TRRU18100E0** means:

- NA6PLUS** - NA6PLUS meter
- T** - bargraph RG
- RR** - red display colour
- U** - universal inputs
- 1** - current output 0/4...20 mA
- 8** - 8 outputs of OC type
- 1** - supply 95...253V a.c./ 90...300V d.c.
- 00** - standard version
- E** - english version
- 0** - without extra requirements

* - after agreeing with the manufacturer

For more information about DITEL products please visit our website:

www.ditel.es



Join us at Facebook!



DS-NA6PLUS_EN_20190219



DISEÑOS Y TECNOLOGIA S.A.

Xarol, 6B P.I. Les Guixeres
08915 Badalona - ESPAÑA
tel.: +34 933 394 758, fax +34 934 903 145
www.ditel.es

made in Poland by:
LUMEL S.A.
www.lumel.com.pl

30740022B