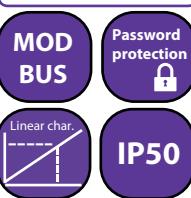
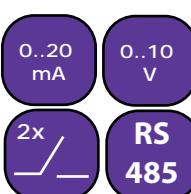
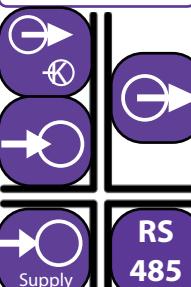


FEATURES:**INPUTS:****OUTPUTS:****GALVANIC ISOLATION:**

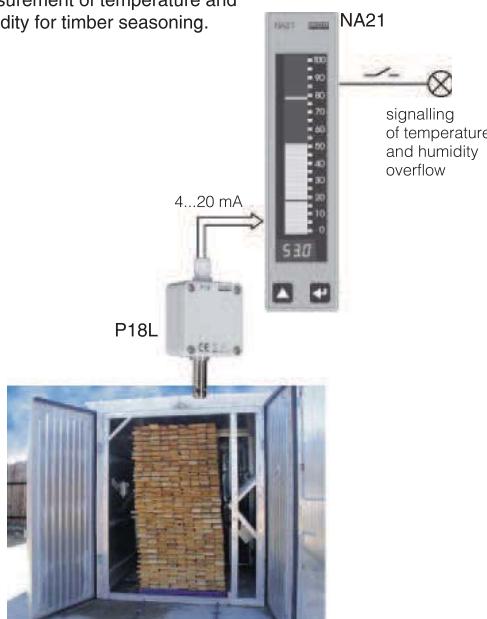
Lack of galvanic isolation between channels



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France
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Measurement of temperature and humidity for timber seasoning.



- Universal input with range of temperature sensors.
- Measurement of d.c. voltage or d.c. current.
- High resolution of bargraphs: 100 segments (NA21), 64 segments (NA22).
- Conversion of measured values into a standard current or voltage signal.
- Communication in SCADA systems (interfejs RS485/Modbus),
- Signalling of set alarm quantity overflow.

INPUTS

Kind of input/measuring range	Basic error in % of range ± 1 digit	Code
0...60 mV	0.2%	01
0...150 mV		02
0...200 mV		03
0...300 mV		04
0...1 V		05
0...2 V		06
0...10 V		07
0...20 V		08
0...200 V		09
0...20 mA		10
0...200 mA		11
0...2 A		12
Pt100 (-200...850)°C	0.1%	Programmed ranges by means of meter push-buttons. Write code 00 in order.
Ni100 (-60...180)°C	0.2%	
Ni100 (-50...180)°C	0.2%	
J (Fe-CuNi) -20...999°C	0.1%	
K (NiCr-NiAl) -50...999°C	0.1%	
N (NiCrSi-NiSi) -50...999°C	0.1%	
E (NiCr-CuNi) -20...800°C	0.1%	
R (PtRh13-Pt) -50...999°C	0.5%	
S (PtRh10-Pt) -50...999°C	0.5%	
-5...60 mV, measuring of voltage	0.1%	
0...400 Ω, pot. transmitter	0.1%	

OUTPUTS

Kind of output	Features
Relay output	<ul style="list-style-type: none"> electromagnetic relay; NOC voltageless contacts, maximal load-carrying capacity: <ul style="list-style-type: none"> voltage: 250 V d.c. or 220 V d.c. current: 1 A d.c., a.c. resistance load: 125 VA, 60 W
Programmable analog output	<ul style="list-style-type: none"> galvanic isolation with resolution 0.025% of range; current programmable 0/4...20 mA, load resistance ≤ 500 Ω or voltage programmable 0...10 V, load resistance ≥ 500 Ω, output response time: 100 ms.
Digital	<ul style="list-style-type: none"> interface type: RS-485; transmission protocol: MODBUS; baud rate: 2400, 4800, 9600 bit/s.
Additional supply output	<ul style="list-style-type: none"> 24 V d.c., maximal load 30 mA

EXTERNAL FEATURES

Readout field	NA21	fluorescent display; digits of 5 mm high, indication range -199...999 bargraph of 84 mm long (100 segments) green-blue, bargraph accuracy: ± 1 segment
	NA22	2 displays with 3 LED digit each; digits of 7.6 mm high, indication range -199...999 2 bargraphs of 92 mm long (64 segments), red, green or red-green; bargraph accuracy: ± 1 segment
Weight	< 0.7 kg	
Overall dimensions	36 × 144 × 130 mm	panel cut-out: 34 ^{+0.6} × 137 ⁺¹ mm
Protection grade (acc. to EN 60529)	IP50 from frontal side	IP20 from terminal side

RATED OPERATING CONDITIONS		
Supply voltage	95...253 V a.c./d.c., 20...40 V a.c./d.c.	Power consumption < 10 VA
Temperature	ambient: -10...23...55°C	Storage: -20...70°C
Relative humidity	< 75%	Condensation inadmissible

SAFETY AND COMPATIBILITY REQUIREMENTS		
Electromagnetic compatibility	noise immunity noise emissions	acc. to EN 61000-6-2 acc. to EN 61000-6-4
Pollution grade	2	
Installation category	III	acc. to EN 61010-1
Maximal phase-to-earth operating voltage	300 V	

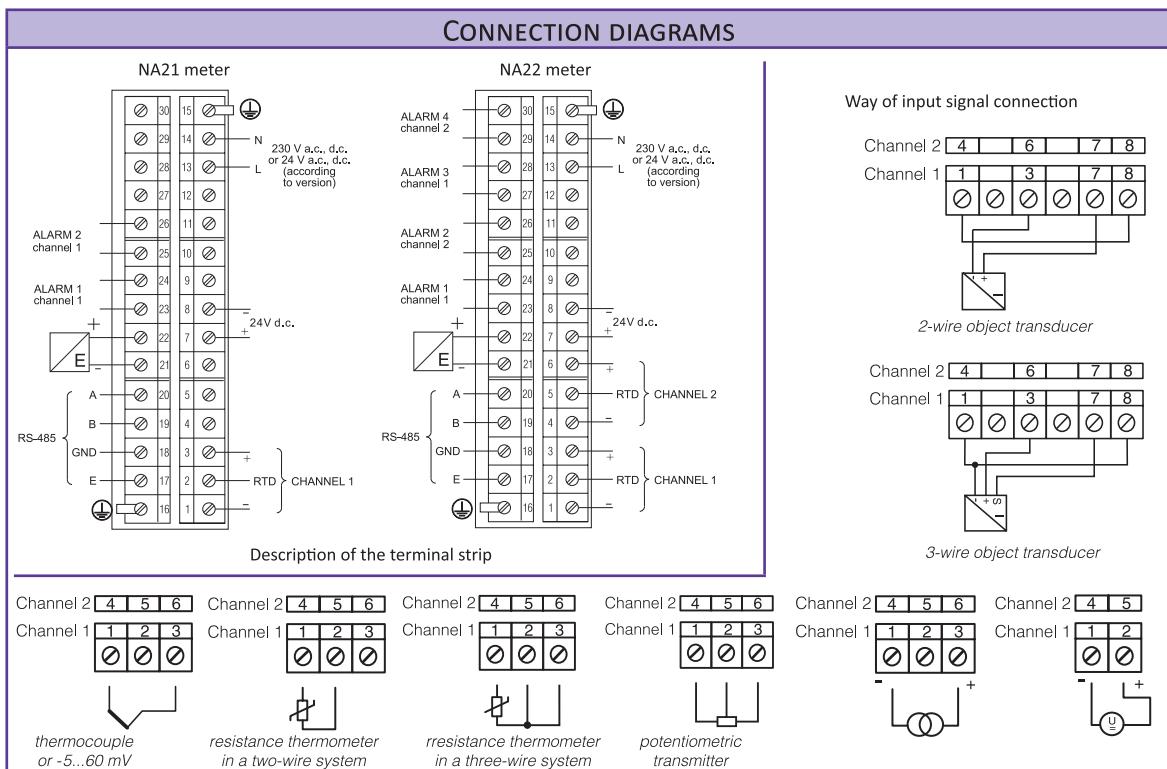


TABLE 1. EXECUTION CODE:						
Number of channels and display colour:	NA2 -	XX	X	XX	X	X
one channel ¹⁾ - blue-green			1B			
two channels ¹⁾ - green			2G			
two channels ¹⁾ - red			2R			
two channels ¹⁾ - red+ green			2D			
Input:						
d.c. current		I				
d.c. voltage		U				
temperature		T				
Measuring range:						
write the range code from the „INPUTS“ table		XX				
on order ²⁾		99				
Alarm output:						
1 relay per channel		1				
2 relays per channel		2				
Output:						
without output		0				
current analog output (0/...20 mA)		1				
voltage analog output (0...10 V)		2				
RS-485 interface (LUMBUS transmission protocol)		3				
RS-485 interface (MODBUS transmission protocol)		4				
Supply:						
95...253 V a.c./d.c.		1				
20...40 V a.c./d.c.		2				
Acceptance tests:						
without an extra quality inspection certificate		8				
with an extra quality inspection certificate		7				
acc. to customer's request ²⁾		X				

Ordering Example:

The code: **NA2 - 1B U 01 1 2 1 8** means:
NA2 - digital meter with bargraph of NA2 type,
1B - one-channel meter with a blue-green display,
U - input: d.c. voltage,
01 - measuring range: 0...60 mV,
1 - alarm output: 1 relay per channel,
2 - output: voltage analog output (0...10 V),
1 - supply voltage: 95...253 V a.c./d.c.,
8 - without an extra quality inspection certificate.

SEE ALSO:

PROGRAMMABLE TRANSDUCER



HCU12

TRANSDUCER SUPPLIED FROM A CURRENT LOOP



HC15

DIGITAL ANEL METER



HI20

MICROPROCESSOR CONTROLLER



HR20



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