

N20 DIGITAL PANEL METER

FEATURES:

PD14
Programmer

eCon

IP65

Linear char.

3-color
display

- Measurement of voltage or d.c. current and temperature (Pt100, J, K):
- Three-colour LED display (5 digits, 14 mm high).
- 2 alarm outputs of OC type.
- Galvanic separation between the supply, measuring inputs and the programmer input.
- Programmable parameters through the PD14 programmer:
 - recounting of indications (individual characteristic),
 - two alarms of OC type operating in 6 working modes,
 - display colour programmable in three intervals,
 - thresholds of displayed overflows,
 - highlight of the unit,
 - automatic or manual compensation: temperature of cold ends (for J, K) or wire resistance (for Pt100),
 - measurement averaging time.
- Supply of object transducers.

INPUTS:

-20...20
mA-10...10
V

60 mV

OUTPUTS:

U

2 x

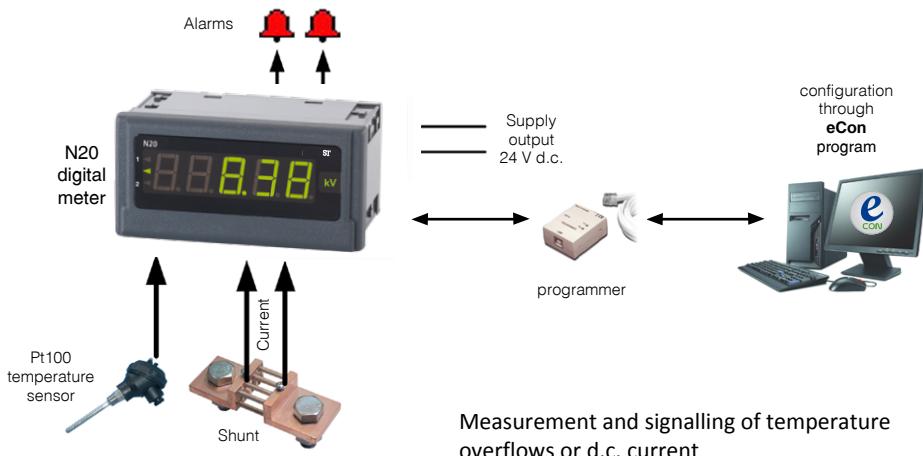
GALVANIC ISOLATION:

Supply

PD14
Programmer

U

EXAMPLE OF APPLICATION



INPUTS

Kind of inputs	Measuring range	Parameters	Basic error
Voltage input	-11...-10...60...66 mV -1...0...10...11 V -11...10...11 V	Input resistance: >1 MΩ	± (0.2% of range + 1 digit)
Current input	-1...0...20...22 mA 3,6...4...20...22 mA -22...-20...20...22 mA	Input resistance: 10 Ω ± 1% Input resistance: 10 Ω ± 1% Input resistance: 5 Ω ± 1%	
Temperature measurement Pt100	-50...400°C		
Temperature measurement through J thermocouple	-50...1200°C		
Temperature measurement through K thermocouple	-50...1370°C		

OUTPUTS

Kind of inputs	Features
Alarm outputs	• 2 alarm outputs of OC type
Outputs for external supply of transducers	• 24 V ± 5%, 30 mA

EXTERNAL FEATURES

Readout field	5 digital LED displays. Indication range -19999...99999 Digit height: 14 mm	Three-colour display (changes of colour depend on the displayed value): red, green, orange.
Weight	< 0.25 kg	
Overall dimensions	96 × 48 × 64 mm	Panel cut-out: 92 ^{+0,6} × 45 ^{+0,6} mm
Protection grade (acc. to EN 60529)	From frontal side: IP65	From terminal side: IP10

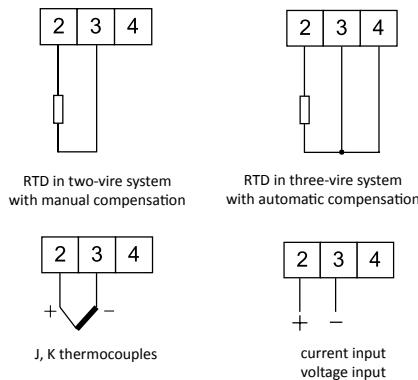
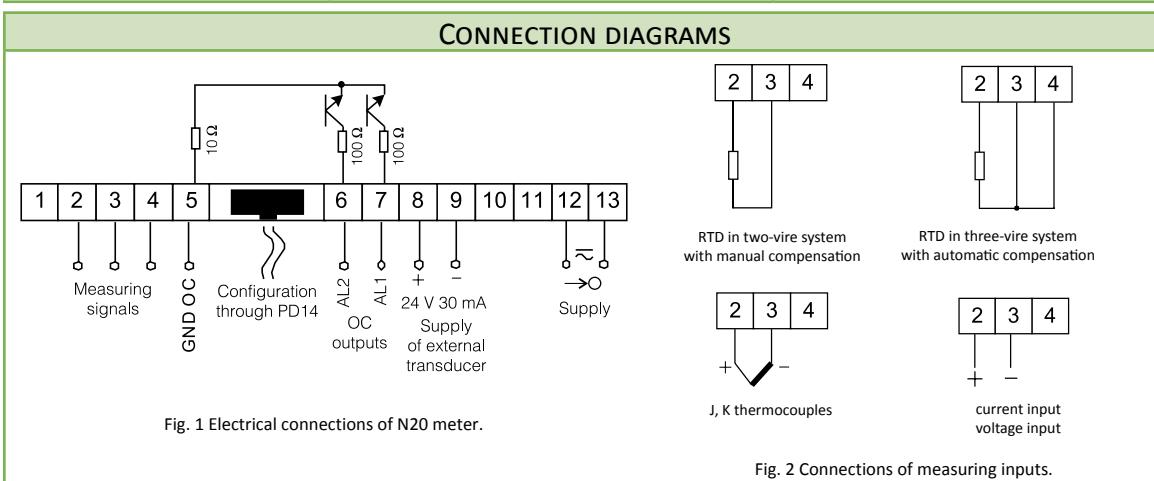
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RATED OPERATING CONDITIONS		
Supply voltage	85...253 V a.c. (45...65 Hz) or d.c., 20...40 V a.c. (45...65 Hz) or d.c.	Power consumption < 6 VA
Temperature	Ambient: -10...23...55°C	Storage: -25...85°C
Relative humidity	< 95%	Condensation inadmissible
Operating position	any	

SAFETY AND COMPATIBILITY REQUIREMENTS		
Electromagnetic compatibility	noise immunity	acc. to EN 61000-6-2
	noise emissions	acc. to EN 61000-6-4
Safety requirements		acc. to EN 61010-1
Galvanic isolation between supply and measuring input	3.2 kV d.c.	



ORDERING						
TABLE 1. ORDERING CODES:						
N20 -	X	X	XX	XX	X	
Input:						
Pt100: -50...400°C	1					
Thermocouple J: -50...1200°C	2					
Thermocouple K: -50...1370°C	3					
0...20 mA	4					
4...20 mA	5					
± 20 mA	6					
0...60 mV	7					
0...10 V	8					
± 10 V	9					
Supply:						
85...253 V a.c./d.c.	1					
20...40 V a.c./d.c.	2					
Unit:						
unit code number acc. to table 2		XX				
Version:						
standard		00				
custom-made*		XX				
non-standard settings		99				
Acceptance tests:						
without extra requirements		8				
with an extra quality inspection certificate		7				
acc. to customer's request*		X				

* - after agreeing with the manufacturer

TABLE 2. CODES OF HIGHLIGHTED UNIT:						
Code	Unit	Code	Unit	Code	Unit	
00	without unit	17	µm	34	bar	
01	V	18	mm	35	rad	
02	A	19	cm	36	Ω	
03	mV	20	m	37	kΩ	
04	kV	21	km	38	%	
05	MV	22	l	39	°	
06	mA	23	l/s	40	turns	
07	KA	24	l/h	41	rps	
08	MA	25	ms	42	rpm	
09	°C	26	s	43	rph	
10	°F	27	h	44	m/h	
11	K	28	N	45	km/h	
12	Hz	29	kN	46	imp	
13	kHz	30	Pa			
14	Ah	31	hPa			
15	kAh	32	kPa			
16	m/s	33	MPa	XX	on order ¹⁾	

1) - after agreeing with the manufacturer

Highlight of the measured value	ON
Automatic compensation of terminal temperature	OFF
Manual compensation of terminal temperature	0
Averaging time	1 s
Upper overflow of measurement	99999
Lower overflow of measurement	-19999
Individual characteristic	ON
Parameter a of the individual characteristic	10.0
Parameter b of the individual characteristic	0
Kind of the alarm output 1 operation	ON
Upper value to switch the alarm 1 - Aon	40.00
Lower value to switch the alarm 1 - Aooff	0.00
Delay of the alarm 1 switching time	0 second
Kind of the alarm output 2 operation	n-on
Upper value to switch the alarm 2 - Aon	44.00
Lower value to switch the alarm 2 - Aooff	40.00
Delay of the alarm 2 switching time	0 second

- means: N20 meter with current input on 4...20 mA,
supply: 20...40 V a.c./d.c., executed acc. to given detailed parameter description
by the user, without extra quality requirements

Caution! When ordering a meter with parameters different than
standard, one must give values of **ALL** parameters.

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