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## N20

Universal input digital panel meter for measurements of d.c. voltages, d.c. currents or temperature.

N2022XX Panel Meter, 2 x OC outputs, J type input, 20-40V ac/dc



- Universal Input (Programmable)
- Wide voltage, AC/DC control
- 3 Colour, 5 Digit display. Red, green and orange

### PRODUCT DESCRIPTION

#### Application

The N20 meter is a digital programmable panel instrument destined for measurements of d.c. voltages or d.c. currents: uni or bipolar, temperature through thermocouples (J, K) and Pt100 resistance thermometers.

#### Features

- three-colour display: red, orange, green, facilitating the observation of measured value changes,
- readout field: 5-digit LED, 14 mm digit height,
- $-\,2$  alarm outputs of OC type (4 types of alarms),
- signaling of alarm states through the highlight of the alarm index,
- housing protection level: IP 65,
- programming possibility of chosen meter parameters with the use of the PD14 programmer and free delivered LPConfig software:
- display colour, individually in three intervals,
- thresholds of displayed overflows
- display precision of the result (decimal point),
- highlight of the unit,
- automatic or manual temperature compensation of ends in measurements with thermocouples,
- averaging time of the measurement,
- two alarms of OC type operating in six working modes.
- recalculation of indications (individual characteristic),

Please refer to the image below for ordering information.



				Ņ	ORD	ERING					
TABLE 1. ORDERING CO	DDE	S:					TABLE 2.	CODES O	F HIGHLIGH	TED UN	HT:
N20 -	х	X	XX	XX	X	Code	Unit	Code	Unit	Code	
Input:			1000	1000		00	without unit	17	μm	34	
Pt100: -50400*C	1					01	v	18	mm	35	
Thermocouple J: -501200°C	2					02	A	19	cm	36	
Thermocouple K: -501370°C	3					03	Wm	20	m	37	1
020 mA	4					04	kV	21	km	38	
420 mA	5					05	MV	22	1	39	
± 20 mA	6					06	mA	23	1/5	40	
00 mV	7					07	kA	24	l/h	40	-
010 V	8					08	MA	25	ms	41	-
± 10 V	9					09	*C	25		42	
Supply:							*F		5		
85253 V a.c./d.c.		1				10		27	h	44	
2040 V a.c./d.c		2				11	K	28	N	45	1
Unit:			-			12	Hz	29	kN	46	-
unit code number acc. to table 2			XX			13	kHz	30	Pa		-
Version:						14	Ah	31	hPa		
standard		00			15	kAh	32	kPa	XX	on	
custom-made*				XX		16	m/s	33	MPa		
non-standard settings				99		1) - afte	r agreeing wi	th the ma	anufacturer		
Acceptance tests:							-99				
without extra requirements					8		t of the measure			1	ON
with an extra quality inspection certificate					7		ic compensatio				OF
acc. to customer's request*					x	Averagi	compensation o	of terminal	temperature	-	0
- after agreeing with the manufacturer					and the second		verflow of meas	urement		-	9999
						Lower or	verflow of meas	urement			-199
						Individu	al characteristic	e			ON

#### ORDER EXAMPLES

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Example 1 The code N20 - 9 1 01 00 8 - means: N20 meter with voltage input on ± 10 V, supply: 85... 253 V a.c., without extra quality requirements, "V" unit

Example 2 The code N20 - 5 2 38 99 8 + description of non-standard settings

Parameter	Range/Value
Displayed colour of the upper measured value	red
Displayed colour of the median measured value	green
Displayed colour of the lower measured value	orange
Upper threshold - KpH	44.00
Lower threshold - KpL	40.00
Decimal point	00.000

06	mA	23	1/s	40	turns	
07	kA	24	l/h	41	rps	
08	MA	25	ms	42	rpm	
09	°C	26	5	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		1	
14	Ah	31	hPa		on order <sup>1</sup>	
15	kAh	32	kPa	XX		
16	m/s	33	MPa	1 CANADA		
Upper overflow of measurement Lower overflow of measurement					99999 -19999	
Individual characteristic					ON	
	r a of the indi			-	10.0	
Parameter <b>b</b> of the individual characteristic Kind of the alarm output 1 operation					ON	
	ue to switch			1	40.00	
Lower value to switch the alarm 1 - Aoff					0.00	
Delay of the alarm 1 switching time					0 second	
Kind of the alarm output 2 operation					n-on	
	ue to switch	-	44.00			
	ue to switch t he alarm 2 sv	-	0 second			
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Unit

bar

rad

Ω

kΩ

%

\*\*Part numbers have changed from ending with E0 to M0, please be advised any part numbers below that end in E0 will say M0 in the datasheet. The product is the same.\*\*

# **TECHNICAL DATA**

Digit height	14 mm
Dimensions	96 x 48 x 64 mm Panel cut-out: 92+0,6 45+0,6 mm
Display	Yes
Input type	Thermocouple J: -50-1200°C
IP class	IP65
Mounting	Panel mount
Number of rows	1
Power consumption	6 VA
Supply voltage	20-40V ac/dc
Туре	Without unit,V,A,mV,kV,MV,mA,kA,MA,°C, °F,K,Hz,kHz,Ah,kAh,m/s,μm,mm,cm,m,km,I,I/s,I/h,ms,s,h,N,kN,Pa,hpa,kPa,Mpa,bar,rad,Ω,kΩ,%, °,turns,rps,rpm,rph,m/h,km/h,imp
Weight	0.25 kg

