**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.

- 4...20 mA
- °C

**NA6plus**

- Signalling of temperature overflow
- Signalling of tank filling

**RS 485**

- Recording of temperature and level parameters

www.lumel.com.pl
NA6PLUS - DIGITAL METER WITH BARGRAPH

TECHNICAL DATA

FEATURES

INPUTS

<table>
<thead>
<tr>
<th>Input type</th>
<th>Measurement range</th>
<th>Basic error</th>
<th>Additional error</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pt100</td>
<td>-200...850°C</td>
<td>0.1%</td>
<td></td>
</tr>
<tr>
<td>Pt500</td>
<td>-200...850°C</td>
<td>0.1%</td>
<td></td>
</tr>
<tr>
<td>Pt1000</td>
<td>-200...850°C</td>
<td>0.1%</td>
<td></td>
</tr>
<tr>
<td>J (Fe-CuNi)</td>
<td>-100...1100°C</td>
<td>0.1%</td>
<td></td>
</tr>
<tr>
<td>K (NiCr-NiAl)</td>
<td>-100...1370°C</td>
<td>0.2%</td>
<td></td>
</tr>
<tr>
<td>R (PtRh13-Pt)</td>
<td>0...1760°C</td>
<td>0.1%</td>
<td></td>
</tr>
<tr>
<td>S (PtRh10-Pt)</td>
<td>0...1760°C</td>
<td>0.1%</td>
<td></td>
</tr>
<tr>
<td>T (Cu-CuNi)</td>
<td>-50...400°C</td>
<td>0.1%</td>
<td></td>
</tr>
<tr>
<td>Resistance</td>
<td>0...10 kΩ</td>
<td>0.1%</td>
<td></td>
</tr>
<tr>
<td>Voltage</td>
<td>± 75 mV, R_leak &gt; 10 kΩ</td>
<td>0.1%</td>
<td></td>
</tr>
<tr>
<td></td>
<td>± 300 mV, R_leak &gt; 100 kΩ</td>
<td>0.1%</td>
<td></td>
</tr>
<tr>
<td></td>
<td>± 600 mV, R_leak &gt; 3.5 MΩ</td>
<td>0.1%</td>
<td></td>
</tr>
<tr>
<td>Current</td>
<td>± 40 mA, R_leak &lt; 4 Ω</td>
<td>0.1%</td>
<td></td>
</tr>
<tr>
<td></td>
<td>± 5 A, R_leak = 10 mΩ ± 10%</td>
<td>0.1%</td>
<td></td>
</tr>
</tbody>
</table>

Intensity of current flowing through the resistance thermometer: < 400 mA
Resistance of wires connecting the resistance thermometer with the meter: < 20 Ω/1 wire

EXTERNAL FEATURE

Readout field | 2 x 4 - digits LED display 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

Overall dimensions | 48 x 144 x 100 mm
Weight | < 0.4 kg
Protection grade (acc. to EN 60529) from frontal side: IP50

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 | ≤ 13 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
Installation category | III
Maximal phase-to-earth operating voltage
- for input circuit: 600 V
- for supply circuit: 100 V
- for other circuits: 50 V

Altitude above sea level | < 2000 m
**ELECTRICAL CONNECTIONS**

*optional elements depend on the meter’s version*  

---

**Fig. 1 Description of the terminal strip.**

- Supply
- Additional supply output

channel 1

- Resistance thermometer in a two-wire system or resistance measurement
- Thermocouple or voltage ±75mV, ±300 mV

channel 2

- Resistance thermometer in a three-wire system
- Voltage input ±10V, ±600V

---

**Fig. 2 Connection way of input signals.**

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

- 8 open collector outputs (OC)
- 4 relay outputs
- Analog outputs (voltage/current)
- Interface RS-485 (Modbus)
- Digital meter with bargraph
- interface RS-485 (modbus)
- Open collector outputs (Oc)
- Additional output channel 2
- Electrical connections
- Voltage input ±10 V, ±600 V
- in a three-wire system
- in a two-wire system or resistance measurement
- additional supply output
- thermocouple or voltage ±75mV, ±300 mV
- current input ±40 mA
-jumlah 1

---

**References:**

- www.lumel.com.pl
**NA6PLUS - DIGITAL METER WITH BARGRAPH**

**ORDERING**

<table>
<thead>
<tr>
<th>NA6plus</th>
<th>X</th>
<th>XX</th>
<th>X</th>
<th>X</th>
<th>X</th>
<th>X</th>
<th>X</th>
</tr>
</thead>
</table>

**Bargraph colour:**
- 3-colour (R, G, R+G): T

**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

**Analogue output:**
- Lack: 0
- 0/4...20 mA: 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:**
- Polish: P
- English: E
- Other*: X

**Acceptance tests:**
- Without extra requirements: 0
- With an extra quality inspection certificate: 1
- Acc. to customer’s request**: X

---

* - after agreeing with the manufacturer

---

For more information about Lumel products please visit our website:


Join us at Facebook!

---

**NA6Plus19_en**

LUMEL S.A.
ul. Sulechowska 1, 65-022 Zielona Góra, POLAND
tel.: +48 68 45 75 100, fax +48 68 45 75 508
www.lumel.com.pl

Export department:
tel.: (+48 68) 45 75 139, 45 75 233, 45 75 321, 45 75 386
fax: (+48 68) 32 54 091
e-mail: export@lumel.com.pl