Power supply
NTV 44 Processing

Function:

The Power supply **NTV 44 P**rocessing was developed to use the L-Probe on all common controller systems. The new power Supply converts the L-Probe Signal to an equivalent mV Signal of a Oxygen Probe. With the Terminal T300 the user can input the correction Factors K1,K2. A two point correction mechanisms is included. Special functions as flushing Probe, recovery time and flushing time will be input via Terminal T300. The NTV 44 Processing supplies high constant voltages (e.g. at lambda probes and other loads). An active 4-wire circuit ensures that line resistances up to 1 ohm and the related voltage drops are compensated.

The polarity of the heating voltage is reversed automatically at regular intervals to avoid effects of oxidation on the lambda probe heater which shorten the life of the probe.

Tecnical data:

Construction:
Macrolon housing for wall mounting

Dimensions/ Weight:
160 x 120 x 90 mm (lxwxh) / 1,85 kg

Protection type:
Housing IP 64

Connection:
Pluggable screw terminals
Wire cross section: max. 2.5 mm

Connection L-probe:
1 m connection cable with plug and coupler

Cable feeds:
7 screw-type glands, PG7, PG9 and PG11

Auxiliary voltage:
115 / 230 Vac/50-60 Hz, approx. 50 VA

Input measuring probe:
0...1300 mVdc (L-probe signal)

Output power supply unit:
12.00 Vdc max. 3 A tol. +-20 mV
(heating voltage for L-probe)

Output measuring probe:
0...1300 mVdc (L-probes-signal, 1:1)
Option: physically separated output
0...20 mA or 4..20 mA

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NTV44P v1.0 datasheet EN

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Advanced options

%O2 and Dew Point calculation with current temperature
(measured by thermocouple K or S type)

Conversion of L-probe voltage into O2 sensor voltage

Optional handheld terminal T300 for configuration of universal outputs, two point correction constants

Digital input and two digital outputs

Four modes for define flushing
(Time, voltage, temperature, digital input)

Isolated analog output as standard in advanced version

Current or voltage output of O2% in the range defined trough terminal T300

Line cross sections:

Two-wire circuit:	<= 2 m	>= 1,0 mm²
Four-wire circuit:	<= 15 m	>= 0,5 mm²
	<= 20 m	>= 0,75 mm²
	<= 30 m	>= 1,0 mm²
	<= 40 m	>= 1,5 mm²
	<= 70 m	>= 2,5 mm²

Technical Data (see page 1):

Line resistance:
max. 1 ohm

Climate:
Storage: -10...+70 ℃
Operation: 0...+50 ℃
5...95 % relative humidity, non-condensing

All specification subject to change without prior notice.

Needed Accessories:

- **Terminal T300 for advanced option**
- **L-Probe**

Optional Accessories:

- **Supply Unit VE02**
- **Controller, Displays**

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