

DIGITAL DEW POINT CONTROLLER DGTP5-AN



Function:

The microprocessor driven controller **DGTP5-AN** serves to control the shielding gas generators using an L-probe. The control range is freely selectable within the limits of -50,0 ... +50,0 ° Dp.

The L-probe can be connected directly to the controller using the NTV 44P power supply to power the L probe. The PID controller parameters are automatically optimized (fuzzy-logic) and stored by the controller. Used as modulating controller a maximum pulse time of 2 seconds is preprogrammed, so additional external pulse-pause relays are not required.

A non-volatile memory ensures the preservation of all data and software settings even after switching off the supply voltage. The adjustment of the desired application occurs via various software configuration levels.

Advantages:

- **µP-driven controller with fuzzy logic for shielding gas generators**
- **Applicable as modulating controller or two-point controller for controlled systems with servomotor (optionally without feedback potentiometer)**
- **High accuracy (± 0.2%)**
- **Exchangeable output modules**
- **Up to 2 freely definable alarm outputs**
- **Ext. Set value input 4 ... 20 mA**
- **Modular construction**
- **Optional actual value output 4 ... 20 mA**
- **Serial communication via RS-232C, RS422 or RS-485 and transmission output (4...20 mA)**

DEW POINT CONTROL OF ENDOGAS-GENERATOR

Required Equipment:

- L-Probe with Measurement Chamber MK 1
- Power Supply Unit NTV 44P for Lambda Probe
- Digital Dew Point Controller DGTP5-AN

- Easy implementation
- Constant quality of endogas
- Easy calibration
- Long life time & low cost

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Order number

530-5114

Device name

Digital dewpoint controller DGTP5-AN

Optional accessories for Dew point control

24451

24931

520-4185

810-0032

- Relays output module E53 RN: Relays
- Measuring chamber with L-probe EM2020
- Power supply NTV 44P for L-probe
- Motor valve PN 16 with drive

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TECHNICAL DATA

Design:

Plastic housing for switch panel mounting

Degree of Protection - front:

NEMA4 for usage in confined spaces
(corresponds to degree of protection IP66)

Degree of Protection - back:

Degree of protection according to IEC standard: IP20

Clamps:

Degree of protection according to IEC standard: IP20

Dimensions:

96 x 96 x 115 mm (WxHxD)

Front panel:

92 x 92 mm (WxH)

Connection:

Screw connection.
Wire cross section max. 2.5 mm

Auxiliary voltage:

100 ... 240 Vac, -15 + 10%, 50/60 Hz

Power consumption:

Approx. 16 VA

Climate storage:

-10 ... + 70 ° C

Operation:

0 ... + 50 ° C, 5 ... 95% rel. moisture, non-condensing

Display:

Two 4-digit seven-segment displays for PV and SV

Heights of digits:

PV = 15 mm red
SV = 11mm green

Optional equipment:

- MK2.1 + L probe
- Power supply NTV44P
- Motor valve