

DP-101STH TEMPERATURE AND AIR HUMIDITY METER AND TRANSMITTER



The DP-101STH is a surface mounting meter with a 4 digit numerical display intended for the measurement of temperature and air humidity. Also calculated dewpoint temperature can be selected for indication. The meter is delivered with a built-in sensor (or sensor with 2m cable) and is pre-programmed ready for use.

The humidity sensor is a capacitive IC humidity sensor with operating range of 0...100% RH, -40 to 85 °C offering reliable long-term performance in different applications. Temperature is measured by Pt-100 ohm RTD.

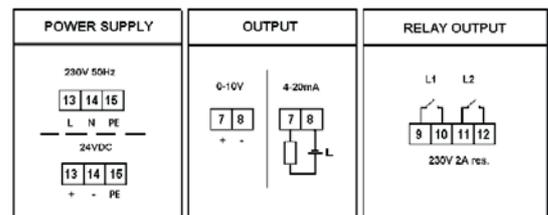
As an option, the meter may also be equipped with two adjustable alarm limits and a programmable current output of 4-20 mA or voltage output of 0-10V. The output can be scaled in temperature, relative humidity or dewpoint temperature. Programming by the user is done using the keys on the front panel and the display. In addition to setting the input, the output, the alarm limits and a password, the user may also program the display using a so-called 'multisample average filter'. This means that changes in the measured value are attenuated by showing the average value of sequential samples the number of which may be set by the user in intervals of five, ten, fifteen etc. samples.

The DP-101STH meter is small and compact. The surface mounting enclosure is only 80 x 130 x 35 mm. All electrical connections are made to screw connectors located under the cover. Power required is either mains voltage, 230 V 50 Hz or low voltage, 24 V AC / DC (on separate order).

TECHNICAL SPECIFICATIONS

Display	4-digit seven-segment LED-display, number height 14 mm
RH range	0...100 %RH, precision ±2% at 25 °C
Dew point range	-40...+50°C (+85 °C sensor with cable)
Temperature	-40...+50°C (+85 °C sensor with cable)
Meas. rate	> 5 measurements / sec
Alarm limits (optional)	-two adjustable limits with relay outputs, can be selected for RH or °C -adjustable hysteresis values and alarm specific delays -front panel indicator lights
Analogue output (optional)	4-20 mA current or 0-10V voltage selectable for temperature or relative humidity, programmable scaling
Operating temp.	built in sensor -40...+50 °C, sensor with cable -40...+85 °C
Power supply	230 V 50 Hz ±10% or 24 VAC/DC

EXTERNAL CONNECTIONS



ORDER INFORMATION

DP-101S-TH1	Meter with built-in sensor
DP-101S-TH2	Meter with external sensor

ADDITIONAL EQUIPMENT

-L2	Adjustable limits (2)
-C420	4-20 mA current output
-V010	0-10V voltage output
-P24 DC	Power 24 VDC
-P24 AC	Power 24 VAC