

# Electronic dew point monitors and dew point sensors

For fastening on standard rail



## Technical data


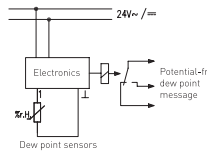

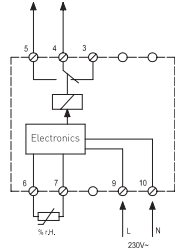



<b>Operating voltage:</b>	see "Equipment"
<b>Power consumption:</b>	approx. 1 VA
<b>Sensor:</b>	external dew point sensor (TPS), max. 5 sensors can be connected
<b>Fixed switching point:</b>	98 % r.h.
<b>Switching output:</b>	potential-free changeover contact
<b>Switching capacity:</b>	Make contact: 10 (3) A / 230 V~ Break contact: 5 (2) A / 230 V~
<b>Min. switching current:</b>	5 mA
<b>Hysteresis:</b>	approx. 4 % r.h.
<b>Indicators (LEDs):</b>	red (= triggering upon the attaining of the dew point)
<b>Degree of protection:</b>	IP 20
<b>Protection class:</b>	see "Equipment"
<b>Admissible air moisture:</b>	max. 95 %, non condensing
<b>Storage temperature:</b>	-20...+70°C
<b>Radio interference suppression:</b>	acc. to EN 60730
<b>Ambient temperature:</b>	0...55°C
<b>Housing colour:</b>	light grey, similar to RAL 7035
<b>Housing material:</b>	plastic (PC)
<b>Mounting / installation:</b>	on standard rail
<b>Weight:</b>	<b>NEHR / WFRN:</b> approx. 160 g <b>TPS:</b> approx. 30 g
<b>Electrical connections:</b>	terminal screws

## Application

For the interruption of the cooling operations in cases where the relative humidity transcends a level of 98 %.

Specially suited to prevent water from dripping off or to avoid the formation of condensed water on cooling lines. The sensors used with these devices are types of the TPS series. Up to 5 sensors can be connected to the sensor input in parallel. **Sensors need be ordered seperately.**

**Important:** The inlet air ducts of the sensor models TPS-1 and TPS-2 have, in order to protect them against the ingress of dirt during their installation, been closed by the manufacturer. After installation, a knife must be used to cut them flush with the wall, so that the air can circulate through them as required.

Model / Picture	Item No.	Equipment	Circuit diagram	PG
	D 4780564	24 V~ / = protective extra low voltage Protection class: III; up to 5 TPS dew point sensors can be connected to the sensor input in parallel. Sensors need to be ordered seperately.		A
	D 4780572	<div style="background-color: orange; color: white; padding: 2px; display: inline-block; font-weight: bold;">NEW</div> 230 V~, 50 / 60 Hz Protection class: II, after acc. installation; up to 5 TPS dew point sensors can be connected to the sensor input in parallel. Sensors need to be ordered seperately.		A
	G 8000299	Cable length: 10 m 2 clips for fixing of the cooling mat	Possible applications: - With dry construction cooling ceilings (plasterboard) with mounted capillary tube mat - With metal cooling system installations with integrated capillary tube systems	A
	G 8000300	Cable length: 10 m 2 clips for fixing of the cooling mat 2 cable straps	Possible applications: - With cold water pipes - With cooling ceiling systems for concealed installation (capillary tube systems)	A
	SN 120000	<div style="background-color: orange; color: white; padding: 2px; display: inline-block; font-weight: bold;">NEW</div> Cable length: 10 m 2 cable straps	Possible applications: - With cold water pipes <b>Caution!</b> The sensor is, due to its open construction, only suited for use in clean environments and needs to installed in an easily removable manner.	A