

Dew point control switch with active/switching output

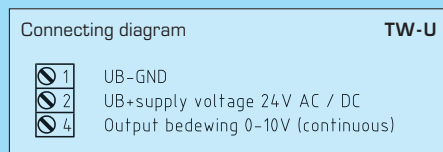
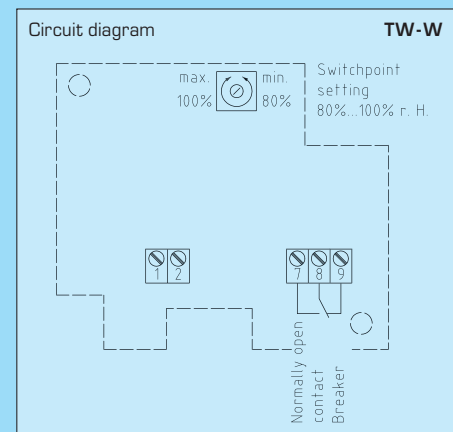
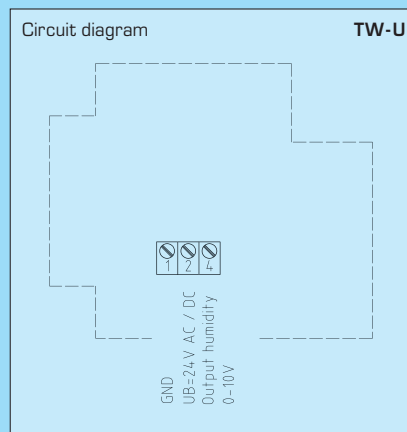
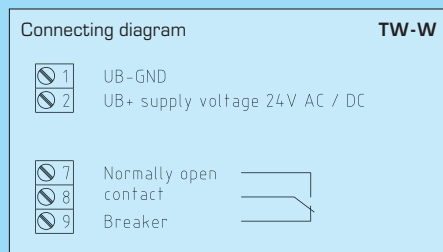
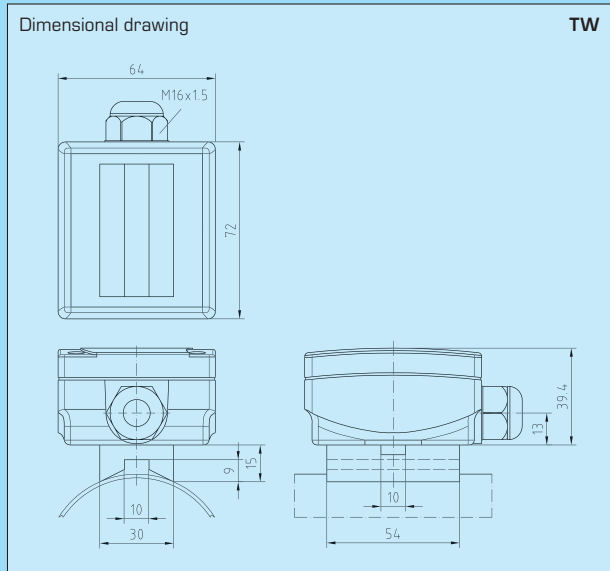
APPLICATION:

The moisture sensor TW is installed on cooling or coldwater piping or on cool surfaces. It can be used as moisture sensor, dew point control switch, or limit switch on pipes. Dew point temperature is that temperature at which air reaches the condition of saturation and water starts to precipitate. By limit values being adjustable between 80...100%, cooling ceilings for example can be operated so that generation of dew on pipes or cooling ceilings or objects to be monitored respectively is avoided by activating the switching output of the dew point control switch and thus, initiating a heating system or other actuators. Moisture is detected by a capacitive humidity sensor.

TECHNICAL DATA:

- Power supply:..... 24V AC/DC
- Measuring range:..... 0...100% r.H. for TW-U, continuous
80...100% r.H. for TW-S and TW-Ö, adjustable,
generation of dew is detected,
switching value can be adjusted via potentiometer
- Internal current consumption:... 5 mA, with relay max. 20mA
- Output signal:..... 0-10V, or potential-free changeover contact (24V)
- Process connection:..... endless metal strap with metal tightener,
length 300mm for pipes up to 3" diameter
(included in the scope of delivery)
- Electrical connection: 0.14 - 1.5 mm² via terminal screws
- Enclosure:..... plastic, material polyamide,
30% glass-globe-reinforced,
with quick-locking screws,
colour pure white (similar RAL9010)
- Dimensions:..... 72x64x39.4mm
- Cable union:..... M16, including strain relief
- Protection class:..... III (according to EN 60730)
- Protection type:..... IP 65 (according to EN 60529)
- Standards:..... CE conformity,
electromagnetic compatibility
according to EN 61326+A1+A2,
EMC directive 89/336/EWG,

TW



HYGRASGARD® TW including strap:

Type / WG1	Range humidity [relative]	Output humidity [relative]
TW-U	0...100% r.H.	0-10V
TW-W	80...100% r.H.	changeover contact