

HygroClip-CP01XX-PVC

Your ROTRONIC HygroClip is a product designed according to ISO 9001 and meeting EN50082-2 EMC requirements. The HygroClip works perfectly for many years when you follow the operating guidelines.

Note: The HygroClip is shipped with a unique certificate of calibration. This certificate cannot be reproduced without physically recalibrating the probe.



Warning:

The electronics of the probe is sensitive to electrostatic discharge (ESD) and wrong supply polarity. Make sure to be properly earthed when handling the probe. Improper handling and too high supply voltage as well as wrong connections (supply voltage on signal wires) may destroy the probe. This can be traced and will void warranty!

Technical Data:

Operating range humidity: 0...100 %rh
Operating range: -40...85 °C

Measuring range:

Humidity: 0...100 %rh
Temperature: -40...85 °C

Outputs:

Temperature: -40...60 °C = 0...1 V
Humidity 0...100 %rh = 0...1 V
Digital signal °C / %rh One Wire DIO

1st measurement value after 2.3 s
Measurement interval: 0.7 s

Supply / Load: 3.5...24 VDC / approx. 3 mA / > 10 kOhm
Note: select the supply voltage as low as possible!

Precision at 23 °C: ±1.5 %rh / ±0.3 K Pt100 1/3 DIN

Protection rating: IP65 (except sensor / filter area)

Wire colour assignment:

Wire colour	Term
Brown	Signal °C / Temperature
Green	Power +VDC
Gray -	Signal and supply ground (GND)
Yellow	DIO signal
White	Signal %rh / Humidity



Adjustment / calibration:

The HygroClip has been adjusted at the factory. We recommend calibration after about 1 year depending on use. You can do this yourself on-site with the ROTRONIC SCS Humidity Standards. Please refer to the instructions included with the humidity standards. Contact ROTRONIC or our representatives concerning adjustment.