

DUOS TEMPERATURE AND HUMIDITY EXTERNAL PROBE

TK-TRH-20-HT



TECHNICAL SPECIFICATIONS

REFERENCE

PA164520010

DUOS T+RH EXTERNAL PROBE 2M TK-TRH-20-HT

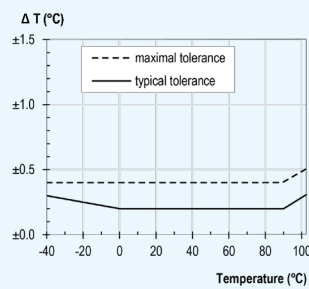
TEMPERATURE

Range -40 °C to 100 °C

Long-term drift <0,03 °C/year

Resolution 0,01°C

Accuracy ¹



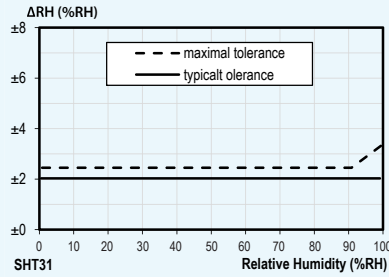
HUMIDITY

Range 0 to 100 %RH

Long-term drift ² <0,25 %RH/year

Resolution 0,01 %RH

Accuracy



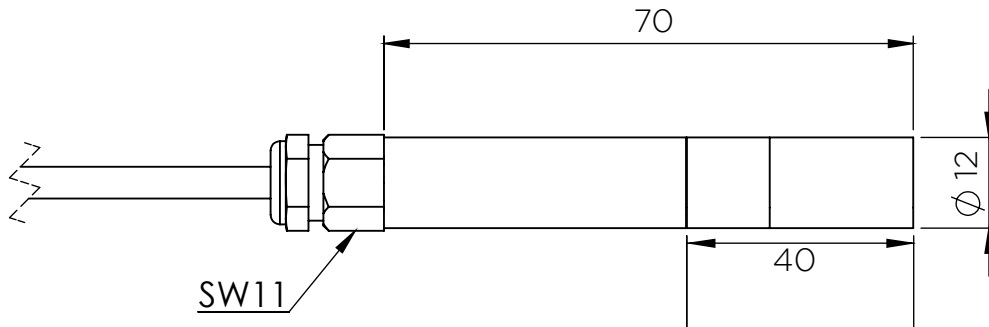
PROBE

Material	Stainless steel
Dimensions	70 x 12 mm
Connector	M8 4-pin male connector
Protection index	IP65
Cable length	2,0 meters
Cable material	PTFE

OPERATING ENVIRONMENT ³

Ambient temperature range	-40 °C to 100 °C
Relative humidity	0 a 100 %RH

TECHNICAL DRAWINGS



CERTIFICATIONS AND APPROVALS

EN 61326-1:2013
EN 61326-2-3:2013

RELATED PRODUCTS AND COMPATIBILITY

DUOS Hygrotemp	Firmware version >= 7.0.0.
DUOS IoT Gateway	Software version >= 3.1.1.

¹ Typical tolerance of ± 0.2°C (0 to 90°C).

² Typical value for operation in normal RH/T operating range. Maximum value is < 0.5 %RH/year. Higher drift values might occur due to contaminant environments with vaporized solvents, out-gassing tapes, adhesives, packaging materials, etc.

³ The sensor shows best performance when operated within recommended normal temperature and humidity range of 5 °C– 60 °C and 20 %RH – 80 %RH, respectively. Long-term exposure to conditions outside normal range, especially at high humidity, may temporarily see a creep effect of the RH signal (e.g. +3 %RH after 5h kept at >80 %RH). After returning into the normal temperature and humidity range the sensor will slowly come back to calibration state by itself. Prolonged exposure to extreme conditions may accelerate ageing.

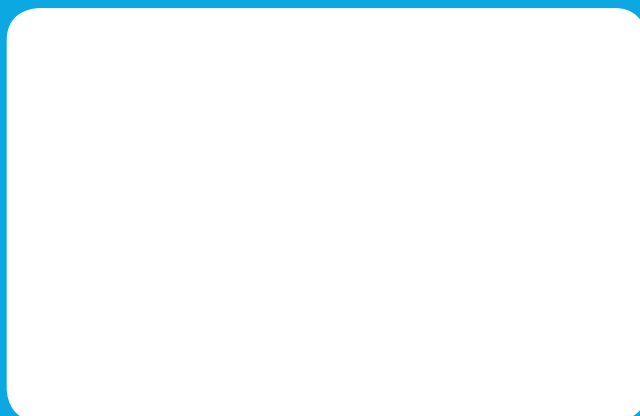
REVISION HISTORY

VERSION	DATE (MM.AA)	CHANGES
E01A	12.24	First release.

TEKON ELECTRONICS
a brand of Bresimar Automação S.A.

Avenida Europa, 460
Quinta do Simão
3800-230 Aveiro
PORTUGAL

P.: +351 234 303 320
E.: sales@tekonelectronics.com



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