

# DUOS HYGROTEMP TEMPERATURE AND HUMIDITY PROBE

## TK-TRH-XX



### TECHNICAL SPECIFICATIONS

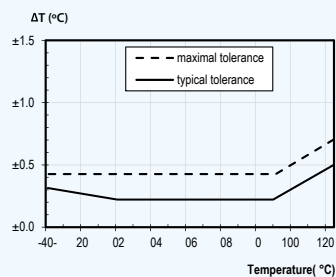
#### REFERENCE

PA164520007	DUOS T+RH EXTERNAL PROBE TK-TRH-05
PA164520008	DUOS T+RH EXTERNAL PROBE TK-TRH-20

#### TEMPERATURE

Range	-40 °C to 80 °C
Long-term drift	<0,03 °C/year
Resolution	0,01°C

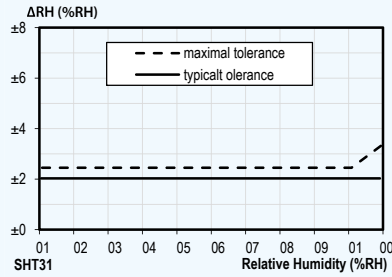
#### Accuracy <sup>1</sup>



#### HUMIDITY

Range	0 to 100 %RH
Long-term drift <sup>2</sup>	<0,25 %RH/year
Resolution	0,01 %RH

Accuracy



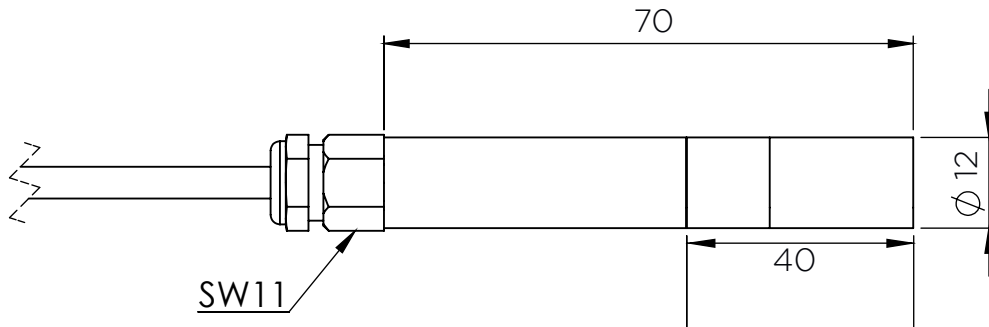
PROBE

Material	Stainless steel
Dimensions	70 x 12 mm
Connector	M8 4-pin male connector
Protection index	IP65
Cable length	0,5 (PA164520007) / 2,0 (PA164520008) meters
Cable material	PUR

OPERATING ENVIRONMENT <sup>3</sup>

Ambient temperature range	-40 °C to 80 °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.

<sup>1</sup> Typical tolerance of ± 0.2°C (0 to 90°C).  
<sup>2</sup> 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.  
<sup>3</sup> 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

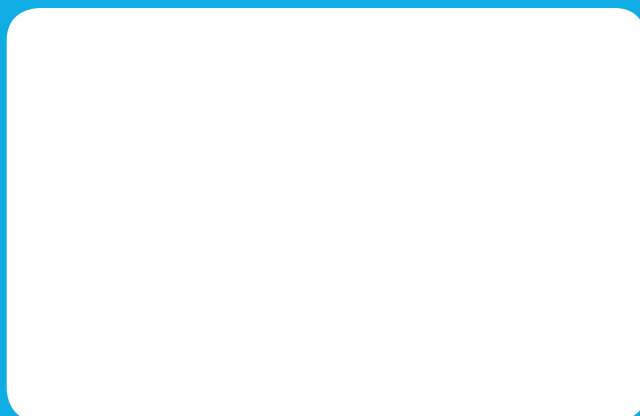
E01B	Update resolution value from "Temperature" table Update of chart about accuracy from "Temperature" table Notes about sensor performance
------	---

---

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



Cofinanciado por:



UNIÃO EUROPEIA  
Fundo Europeu  
de Desenvolvimento Regional