TECHNICAL PRODUCT INFORMATION

Temperature Sensor

TS/C 1.0

Document Version: 1.0, Date: 03. April 2015

This product has to be used with the HDLFCU Controller, M/FCU01.10.1specified in its own Technical Product Information.

Compiled by: Mr. He, Technical Manager, KNX-Products

Location: Technical Manager, KNX-Products Date: 09.04.2015 Signature:

Approved by: Mr. Zeng, Vice-president, CTO

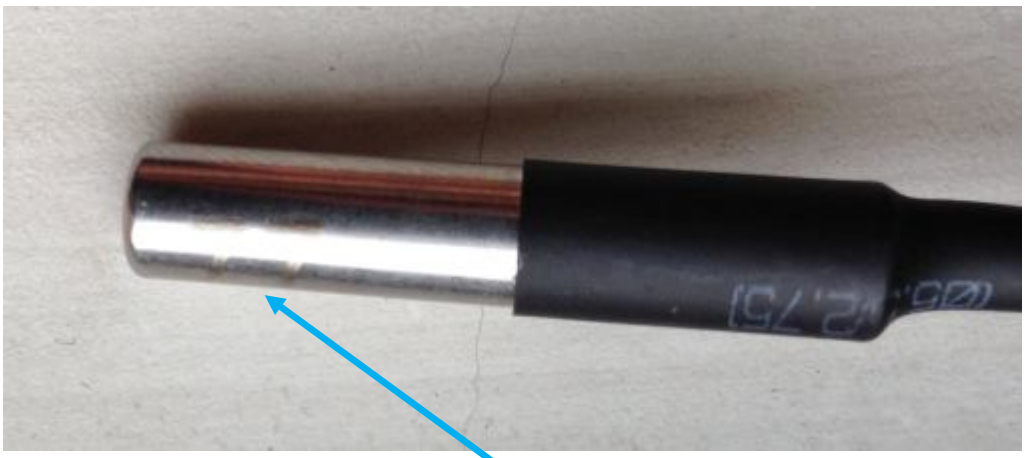
Location: Vice-president, CTO Date: 09.04.2015 Signature:

1.Document History			
Version	Date	Comments	Author (english name)
draft	10.02.2015	First issue	Ms. Eva Kuang
1.0	03.04.2015	No change, official V1.0	Ms. Eva Kuang

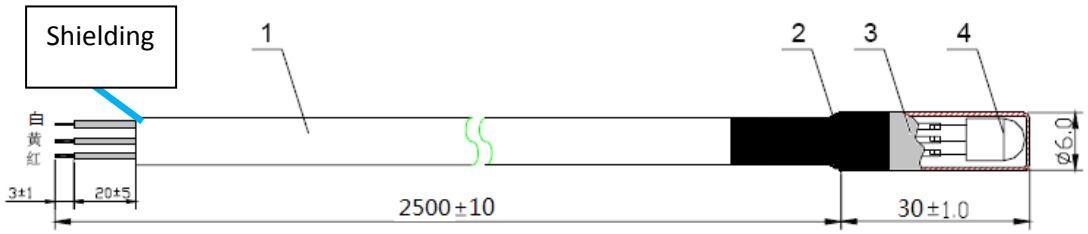
2. General	
Product name	Temperature Sensor
Article number	TS/C 1.0
Bus-type	Not applicable
Product description/functions	Accessory for HDL FCU Controller, M/FCU01.10.1

3. Color Product Pictures





4. Dimension Diagram (all views, including part legend)



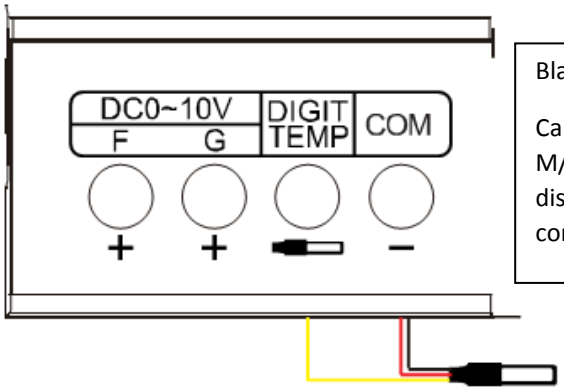
1: 26AWG, length: 2500mm, 3 cores, black sheathed line

2: Wrapper, length: 34mm, Shrinking Sleeve

3:304, stainless steel tube, sealed with resin

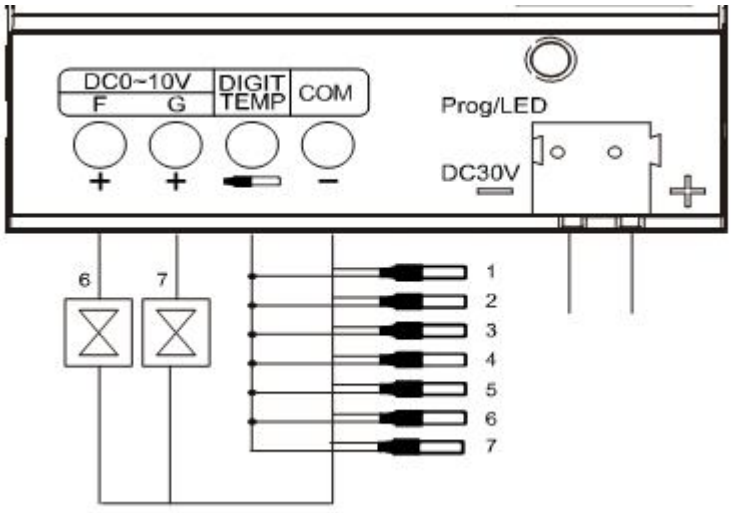
4: Sensor, DS18B20

5. Application Diagram together with HDL-M/FCU.01.10.1



Black wire in drawing is the sensor white wire.

Cable shielding is normally not connected at HDL-M/FCU.01.10.1. In case of signal problems e.g. signal disturbances/long cable extensions it can be connected to earth potential.



6. Technical Data	
Type	Digital sensor, DS18B20
Operating temperature	-55°C..+130°C
Accuracy	±0.01°C
Operating Voltage	3.0V..5.5V DC
Current	Not applicable
Power Consumption	Not applicable
Additional Power Supply	Not applicable
Insulated Resistance	≥100MΩ(500VDC. in air)
Breakdown Voltage	1500V AC（No breakdown）
Vibration	Not applicable
Measurement data	Not applicable
Sensor Serial No.	 Black wire in drawing is the sensor white wire - Laserprinted - Range: 1..255 - Max. 7 temperature sensors can be connected to the HDL-M/FCU.01.10.1. - The Sensor Serial No. must be different if connected more than one sensors to HDL-M/FCU.01.10.1. - The temperature sensors are addressed to HDL-M/FCU.01.10.1-ETS parameter “Floor heating – Channel A (B,C,D,E,F,G)”

7. Terminal	
Type	Cable type: No supplier information Color: Black Length:2500mm, sheath diameter: 3mm±0.2, black Stranded wire diameter: 0.4mm Non insulated cable end length: 3±1mm, soldered
Permitted max. cable length/extension	50m
Safety	Not applicable

8. User interface	
Control	Not applicable
Display	Not applicable

9.Mounting/Installation	…
Installation/Environment/Applications	Indoor/Outdoor-type

10. Classifications	
Protection-Rating (Protection against intrusion, dust, contact, water)	IP68-Code (EN 60529)
Protection-Class (Protection against electric shock)	Not applicable
Degree of pollution	Not applicable
Overvoltage class	Not applicable
KNX-Bus-classification	Not applicable
Fire Load	Not applicable

11. Climatic Conditions	
Temperature range	(GB/T13582-92) Operation: -55°C..+130°C Storage:-55°C..+130°C Transport: -55°C..+130°C
Relative humidity	(GB/T13582-92) Max. 93% non-condensing

12. Mechanical data	
Dimensions	6mm x 30mm (Diameter xLength)
Weight incl. cable	45.3g
Housing material	Stainless Steel
Fire load	Not applicable

13. Reliability	
Failure rate	Not applicable
MTBF	Not applicable
Operation cycles/times	Not applicable
Output life expectancy, mechanical, electrical	Not applicable

14. Certification	
CE-mark	M/FCU01.10.1-EMC-test-report: CTS, CGZ3150122-00054-E, 30.January 2015 RoHS-test-report: CTS, CGZ3141230-04396-C-R1, 23. January 2015 REACH: HDL, Declaration of REACH conformity, 22. January 2015

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