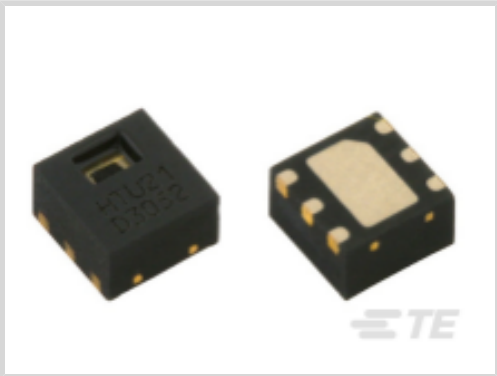




Sensors > Humidity Sensors > Humidity Sensor Components > HTU21D Digital High Accuracy RH/T Sensor



Humidity Sensor Product Type: RHT

Supply Voltage (Peak): 3.8 V

Current Consumption: .014 mA

Operating Temperature Range: -40 – 125 °C [ -40 – 257 °F ]

Interface Signal Type: Digital

[All HTU21D Digital High Accuracy RH/T Sensor \(4\)](#)

Features

Product Type Features

|                              |         |
|------------------------------|---------|
| Humidity Sensor Product Type | RHT     |
| Interface Signal Type        | Digital |

Electrical Characteristics

|                       |         |
|-----------------------|---------|
| Supply Voltage (Peak) | 3.8 V   |
| Current Consumption   | .014 mA |

Usage Conditions

|                             |                            |
|-----------------------------|----------------------------|
| Humidity Operating Range    | 0 – 100 %RH                |
| Operating Temperature Range | -40 – 125 °C[-40 – 257 °F] |

Product Compliance

[For compliance documentation, visit the product page on TE.com>](#)

|   |  |
|---|--|
| EU RoHS Directive 2011/65/EU                  | Compliant  |
| EU ELV Directive 2000/53/EC                   | Compliant  |
| China RoHS 2 Directive MIIT Order No 32, 2016 | No Restricted Materials Above Threshold  |
| EU REACH Regulation (EC) No. 1907/2006        | Current ECHA Candidate List: JUNE 2024 (241)<br>Candidate List Declared Against: JUNE 2024 (241) |



Does not contain REACH SVHC

|                           |   |
|---------------------------|---|
| Halogen Content           | Low Halogen - Br, Cl, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC Free |
| Solder Process Capability | Not reviewed for solder process capability  |

Product Compliance Disclaimer

This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, mercury, PBB, PBDE, DBP, BBP, DEHP, DIBP, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2011/65/EU (RoHS2). Finished electrical and electronic equipment products will be CE marked as required by Directive 2011/65/EU. Components may not be CE marked. Additionally, the part numbers that TE has identified as EU ELV compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, and mercury, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2000/53/EC (ELV). Regarding the REACH Regulation, the information TE provides on SVHC in articles for this part number is based on the latest European Chemicals Agency (ECHA) 'Guidance on requirements for substances in articles' posted at this URL: <https://echa.europa.eu/guidance-documents/guidance-on-reach>

Compatible Parts



TE Part # HPP845E134R4  
HTU20DF RH/T SENSOR IC B400




TE Part # CAT-HSC0005  
HTU21P Analog High Accuracy RH/T Sensor

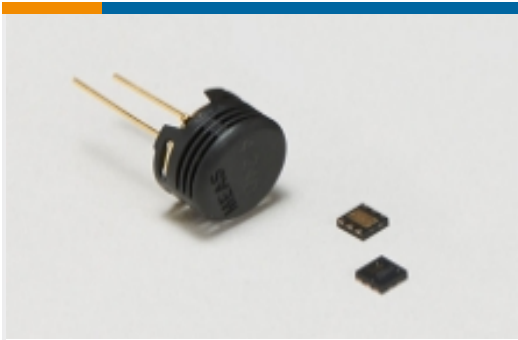


TE Part # HPP845E031  
HTU21D RH/T SENSOR


Also in the Series | MEAS HTU



Humidity Sensor Assemblies(4)



Humidity Sensor Components(18)



Sensor Development Boards and Evaluation Kits(3)

Customers Also Bought



TE Part #MS580314BA01-00  
MS5803-14BA01 DIGIT PRESSURE  
SENSOR TUBE

TE Part #1-215079-2  
Female-on-Board Connector, Top  
Entry

TE Part #2-1625984-7  
HSA50 1R8 5%

TE Part #2301844-1  
AMPL REC HD20, R/A, 9P, B/L,4-40 INS

TE Part #1-1241150-0  
10P MOD II BREAK AWAY HDR,SMD,  
BLISTER

TE Part #2-2176056-5  
RLP73K 2B R10 5% 5K RL

TE Part #2-2176379-7  
RQ 0805 200R 0.1% 10PPM 5K RL

Documents

CAD Files

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_HPP845E031R4\_B.2d\_dxf.zip

English

Customer View Model

ENG\_CVM\_CVM\_HPP845E031R4\_B.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_HPP845E031R4\_B.3d\_stp.zip

English

By downloading the CAD file I accept and agree to the [Terms and Conditions](#) of use.

Datasheets & Catalog Pages

HTU21D

English