10142048-20 ✔ ACTIVE

MEAS | MEAS HTU

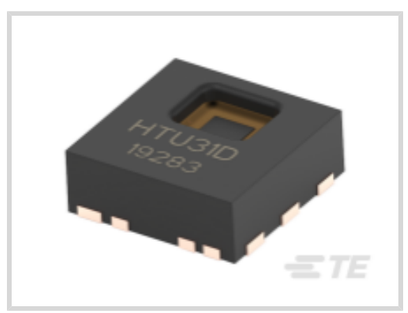
TE Internal #: 10142048-20

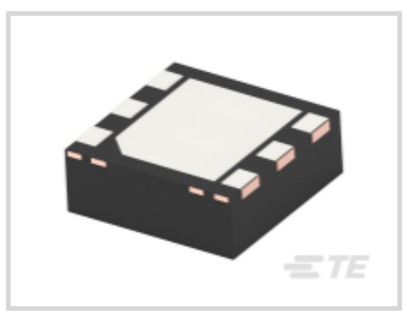
TE Internal Description: HTU31D I.C 31D RH/T DIGITAL R400

HTU31 Humidity and Temperature Combination Sensor

View on TE.com >

Sensors > Humidity Sensors > Humidity Sensor Components > HTU31 Humidity and Temperature Combination Sensor





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

Humidity Sensor Product Type: **RHT**

Supply Voltage (Peak): **5.5 V**

Current Consumption: **1 mA**

Interface Signal Type: **Digital**

All HTU31 Humidity and Temperature Combination Sensor (9)

Features

Other

Response Time	3 seconds
EU RoHS Compliance	Compliant

Electrical Characteristics

ESD Robustness	± 8 kV
Supply Voltage (Peak)	5.5 V
Current Consumption	1 mA

Product Type Features

Accuracy	±2 %
Humidity Sensor Product Type	RHT
Interface Signal Type	Digital

Usage Conditions

Humidity Operating Range	0 – 100 %RH
Temperature Accuracy	± .2 °C
Operating Temperature Range	-40 – 125 °C[-40 – 257 °F]

Product Compliance

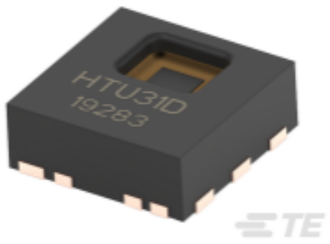
For compliance documentation, visit the product page on TE.com>

EU RoHS Directive 2011/65/EU	Compliant
EU ELV Directive 2000/53/EC	Out of Scope
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) 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

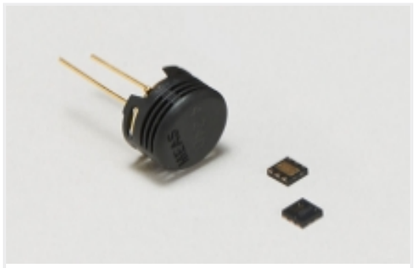
Compatible Parts



TE Part # CAT-HSC0007
HTU31 Humidity and Temperature Combination Sensor

Also in the Series | MEAS HTU

Humidity Sensor Assemblies(4)



Humidity Sensor Components(20)

Sensor Development Boards and Evaluation Kits(3)

Customers Also Bought

TE Part #1-1318116-3
DYNAMIC D-2100 TAB HSG 3P P/M

TE Part #1721260-5
OJ-SS-112LMH2

TE Part #M3021-000005-500PG
PRESS XDCR M3021-000005-500PG

TE Part #1624345-1
NTC0805 5% 10K

TE Part #10205441-04
U7132-050PG-QW0000

TE Part #20026082-00
PT100,TEP,SENSOR,SS316,HEX,HSG

TE Part #10103120-00
NTC TEMPERATURE SENSOR

TE Part #20026082-01
PT100,TEMP SENSOR,SS316L,HEX

TE Part #20026498-00
NTC,10K ,SS HEX HSG,TEMP,SENSOR

TE Part #20028964-00
U7139-100PA-QW0000

Documents

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_10142048-20_A.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_10142048-20_A.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_10142048-20_A.3d_stp.zip

English

By downloading the CAD file I accept and agree to the Terms and Conditions of use.

Datasheets & Catalog Pages

HTU31 RHT SENSOR IC Data sheet

English