



**THE DATASHEET OF
10142048-20**





MEAS | MEAS HTU

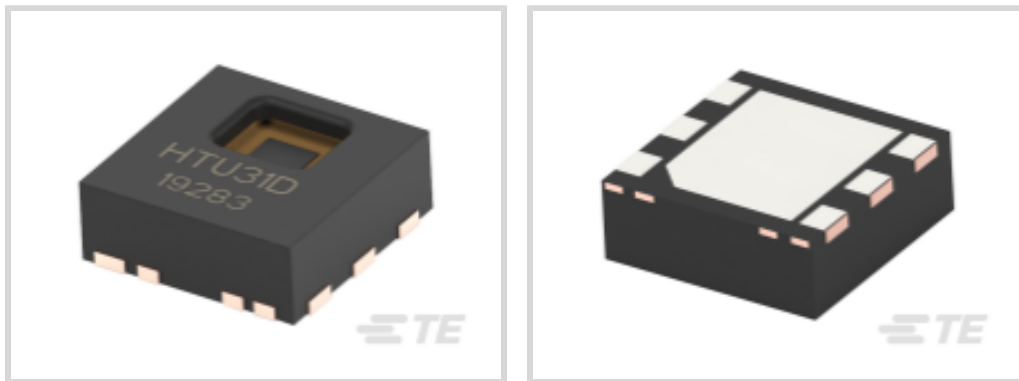
TE Internal #: 10142048-20

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

HTU31 Humidity and Temperature Combination Sensor

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



Humidity Sensor Product Type: RHT

Supply Voltage (Peak): 5.5 V

Current Consumption: 1 mA

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

Interface Signal Type: Digital

[All HTU31 Humidity and Temperature Combination Sensor \(9\)](#)

Features

Product Type Features

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

Electrical Characteristics

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

Usage Conditions

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

Other

EU RoHS Compliance	Compliant
Response Time	3 seconds

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>

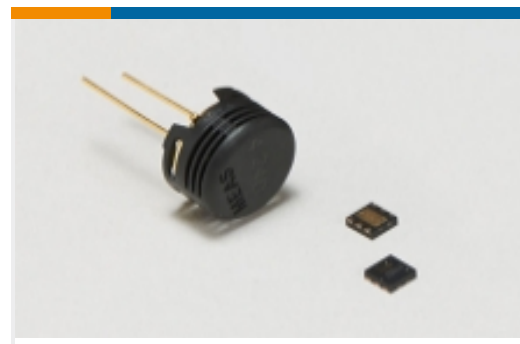
Compatible Parts



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 #10205441-04
U7132-050PG-QW0000TE Part #M3021-000005-500PG
PRESS XDCR M3021-000005-500PGTE Part #3-1825910-2
FSM16JAH=6MM TACT SWITCH,
HIGH TEMPTE Part #5050863-5
SOCKET,MIN-SPR SN-AU SER-2

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

Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

[View 10142048-20 on WIN SOURCE](#)

[TE Connectivity Information](#)

Optimize Your Supply Chain with WIN SOURCE Solutions

- ✓ Global Sourcing Solution
- ✓ Obsolete Management
- ✓ Cost Control Management
- ✓ Shortage Management
- ✓ Alternative Solution
- ✓ Excess Inventory Management