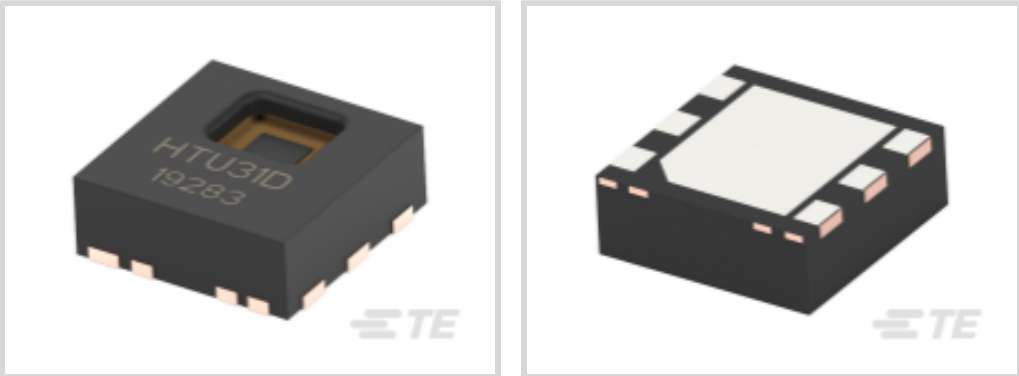




Sensors > Humidity Sensors > HTU31 Humidity and Temperature Combination Sensor



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

Humidity Sensor Product Type: RH Temperature Module

Supply Voltage (Peak): 5.5 VDC

Accuracy: ±2 %RH

Current Consumption: 161 mA

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

Features

Product Type Features

Humidity Sensor Product Type	RH Temperature Module
Interface Signal Type	Analog

Electrical Characteristics

ESD Robustness	± 8 kV
Supply Voltage (Peak)	5.5 VDC
Current Consumption	161 mA

Usage Conditions

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

Other

Response Time	3 seconds
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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	有害物质含量符合标准要求 No Restricted Substance(s) Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2025 (250) Candidate List Declared Against: JUNE 2025 (250) Does not contain REACH SVHC
Halogen Content	Low Halogen - Br, Cl, F < 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



Automotive Humidity Sensors(2)

Humidity Sensors(30)

Relative Humidity (RH) Sensors(30)

Sensor Development Boards and Evaluation Kits(3)

Customers Also Bought

TE Part #CSA-SMAM-216-SAFB
SMA to SMA 216mm RG174

TE Part #364914-E
STVC 64 M AC VV 4-00 0606 ** 247
E007 1

TE Part #51421-2
SHV PANEL RECPT

TE Part #5-103946-5
2X6 MTE SHRD PIN SR POL .100CL

TE Part #330024
BNC BHD JACK ADAPTER

TE Part #826469-3
2X3P MOD II SHROUDED HEADER, ST

TE Part #3-1437622-8
KN1751BS1/4=KNOB SPINNER L/HAI

TE Part #1624203-2
23SE 100KA 6.35X50FL B7 CAT

TE Part #1676979-5
TW 1W 25R 6.35X25PL

TE Part #6-6437144-2
FSN-23A-8

Documents

Datasheets & Catalog Pages

HTU31 RHT SENSOR IC Data sheet

English