

10142048-31

✓ ACTIVE

MEAS | MEAS HTU

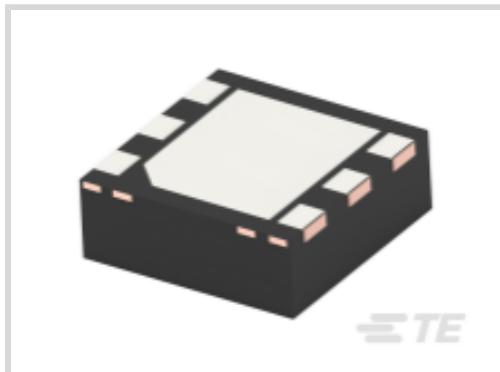
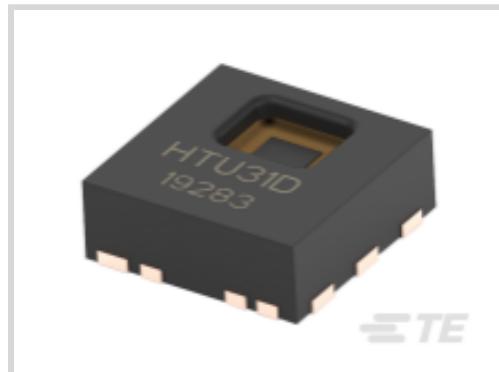
TE Internal #: 10142048-31

TE Internal Description: HTU31V I.C 31V RH/T ANALOG R1500

HTU31 Humidity and Temperature Combination Sensor

[View on TE.com >](#)

Sensors &gt; Humidity Sensors &gt; Humidity Sensor Components &gt; 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: **161 mA**Interface Signal Type: **Analog**[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	161 mA

### Product Type Features

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

### 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

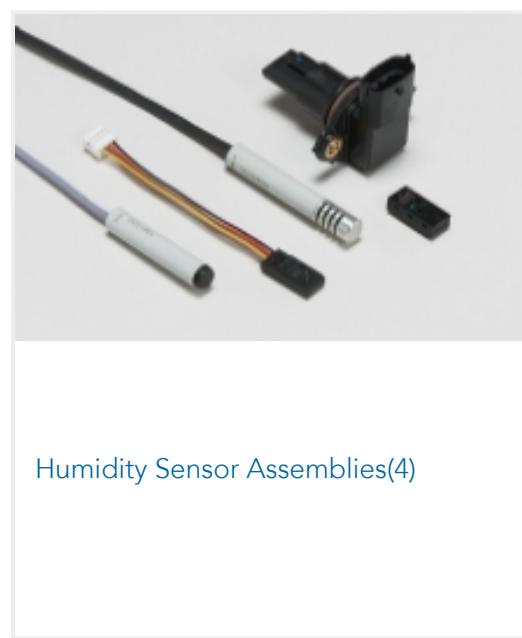
#### Product Compliance Disclaimer

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



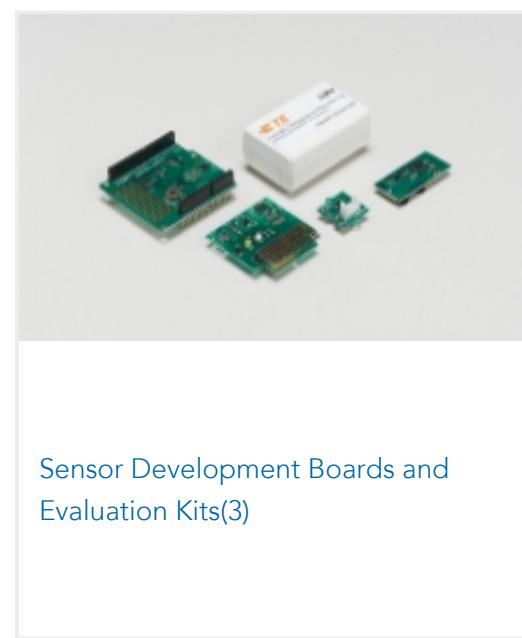
## Also in the Series | [MEAS HTU](#)



Humidity Sensor Assemblies(4)



Humidity Sensor Components(20)



Sensor Development Boards and Evaluation Kits(3)

## Customers Also Bought

TE Part #4-1879267-9  
RP 2B 1M0 0.1% 15PPM CUT LENGTHTE Part #6-1879214-1  
CPF 0402 1K54 0.1% 25PPM 1K RLTE Part #9-1614882-7  
CPF 0603 18R 0.1% 25PPM 1K RLTE Part #2118725-2  
STD SHIELD COVER, CRS-44.97X44.97X2.00MMTE Part #CONMMCX012-R178  
MMCX Jack 50 Ohm Cable CrimpTE Part #5-1623932-8  
CFR50 5% 220RTE Part #1337771-8  
50 OHM COAX BNC STR PLUG P99-ETE Part #1614883-9  
CPF0805 200K 0.1% 25PPM 5K RLTE Part #364914-E  
STVC 64 M AC VV 4-00 0606 \*\* 247  
E007 1TE Part #FG24008  
OMNI,FG,2400-2485MHZ 2442.5MHz,  
6dBd

## Documents

### Datasheets & Catalog Pages

#### HTU31 RHT SENSOR IC Data sheet

English