

10142048-31 ✓ ACTIVE

MEAS | MEAS HTU

TE Internal #: 10142048-31

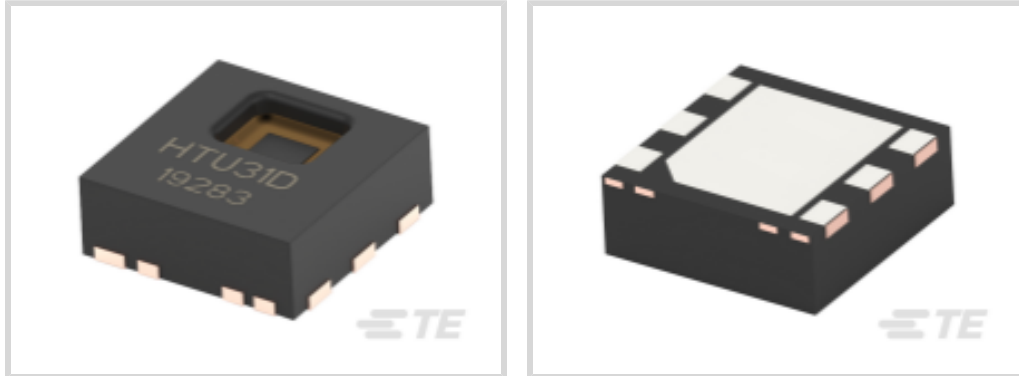
TE Internal Description: HTU31V I.C 31V RH/T ANALOG R1500

HTU31 Humidity and Temperature Combination Sensor

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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: 161 mA

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

Interface Signal Type: Analog

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

## Features

### Product Type Features

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

### Electrical Characteristics

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

### Usage Conditions

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

### 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	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>

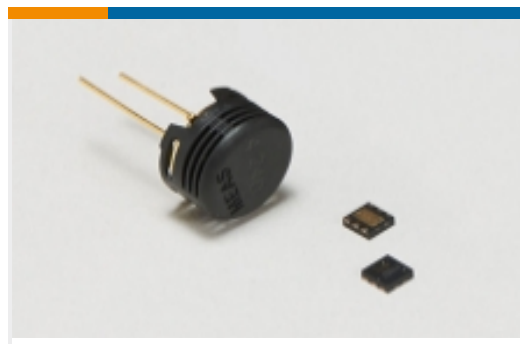
## Compatible Parts



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



Humidity Sensor Assemblies(4)



Humidity Sensor Components(18)



Sensor Development Boards and Evaluation Kits(3)

## Customers Also Bought



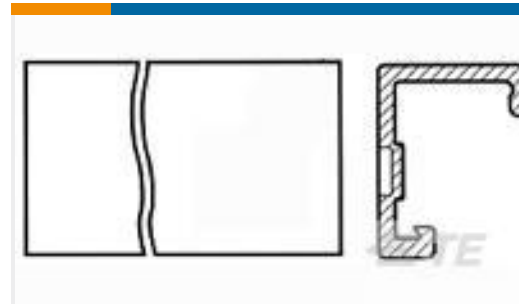
TE Part #2199119-8  
M.2 0.5PITCH 3.2H KEY A 15U" AU



TE Part #5-2176231-7  
3522 2K2 1% 3W



TE Part #1-2176057-9  
RLP73N 3A R056 1% 1K RL



TE Part #640551-3  
03P MTA156 COVER



TE Part #2-1445054-6  
MICRO MNL HDR ASSY S/ROW LF



TE Part #2-1879208-3  
CPF 0402 82R 0.1% 25PPM 1K RL



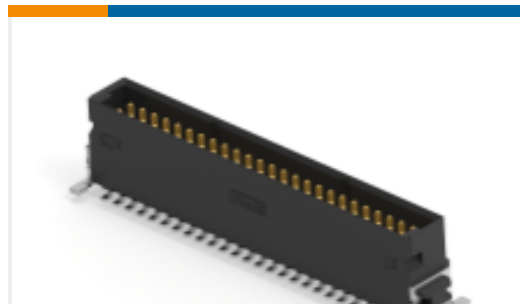
TE Part #5-146280-8  
08 MODII HDR SRST B/A .100CL



TE Part #5-2301994-2  
RJ45 JACK INT.MAG. 10/100 LED 1X1 INV.



TE Part #2-2176307-2  
RP 1E 0.1W 20K5 0.1% 25PPM 5K RL



TE Part #244856-E  
SMCQ 50 M AB VV 8-03 CL \* H007 137 E005

## Documents

### Datasheets & Catalog Pages

[HTU31 RHT SENSOR IC Data sheet](#)

English