

# 0.2 DEG C ACCURACY PWM TEMP SENSOR

✓ ACTIVE

MEAS | MEAS TSYS

TE Part # G-NIMO-004

TE Internal #: G-NIMO-004

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Sensors > Temperature Sensors > Digital Temperature Sensors



Width: 2.5 mm [ .098 in ]  
Model Number: TSYS02P  
Sensor Type: Digital IC Temperature Sensor  
Package: TDFN8  
Output/Span Resolution: 16 bit

### Features

#### Product Type Features

Model Number	TSYS02P
Sensor Type	Digital IC Temperature Sensor

#### Electrical Characteristics

Supply Voltage	2.2 – 3.6 V
Supply Current (Max)	18 µA

#### Termination Features

Wire/Cladding/Connection	SMD
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#### Dimensions

Width	2.5 mm[.098 in]
Length	2.5 mm[.098 in]
Height	.75 mm[.029 in]

#### Usage Conditions

Accuracy T_Range	-5 – 50 °C
Operating Temperature Range	-40 – 125 °C[-40 – 257 °F]

#### Operation/Application

Output/Span Resolution	16 bit
Accuracy	± .2 °C

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Output Interface	PWM
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Packaging Features

Package	TDFN8
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Product Compliance

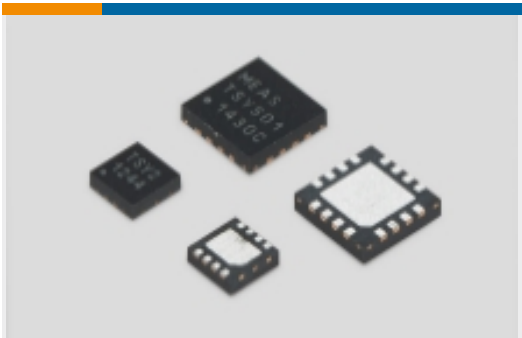
For compliance documentation, visit the product page on TE.com>

EU RoHS Directive 2011/65/EU	Not Yet Reviewed
EU ELV Directive 2000/53/EC	Not Yet Reviewed
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: JAN 2019 (197) Candidate List Declared Against: JUL 2017 (174)
Halogen Content	Not Yet Reviewed for halogen content
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 Regulations, TE’s information on SVHC in articles for this part number is still based on the European Chemical Agency (ECHA) ‘Guidance on requirements for substances in articles’(Version: 2, April 2011), applying the 0.1% weight on weight concentration threshold at the finished product level. TE is aware of the European Court of Justice ruling of September 10th, 2015 also known as O5A (Once An Article Always An Article) stating that, in case of ‘complex object’, the threshold for a SVHC must be applied to both the product as a whole and simultaneously to each of the articles forming part of its composition. TE has evaluated this ruling based on the new ECHA “Guidance on requirements for substances in articles” (June 2017, version 4.0) and will be updating its statements accordingly.

Also in the Series | MEAS TSYS



Digital Temperature Sensors(9)

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Customers Also Bought

TE Part #5176381-3  
PLUG ASS'Y(H) 80P 1.27  
FHBB

TE Part #5-1123723-4  
3.96 EP HDR ASSY 4P  
(BLACK)

TE Part #5917630-3  
REC ASS'Y 80P 1.27FHBB

TE Part #1623722-4  
SBCH 11 33R 5%

TE Part #1217878-1  
110 FLAG FAST REC 22-18  
TPBR

TE Part #3-102398-0  
64 AMPMODU MT ASSY  
DR .100CL

TE Part #G-NIMO-005  
0.2 DEG C ACCURACY I2C  
TEMP SENSOR

TE Part #8-1622825-1  
RL73K 2E R22 5% 5K RL

Documents

Datasheets & Catalog Pages

TSYS02-FAMILY

English

TSYS02P

English