

0.1 DEG C ACCURACY QFN TEMP SENSOR ✓ ACTIVE



MEAS | MEAS TSYS

TE Part # G-NICO-018

TE Internal #: G-NICO-018

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Sensors > Temperature Sensors > Digital Temperature Sensors



Width: 4 mm [.157 in]

Model Number: TSYS01

Sensor Type: Digital IC Temperature Sensor

Package: QFN16

Output/Span Resolution: 16 bit, 24 bit

Features

Product Type Features

Model Number	TSYS01
Sensor Type	Digital IC Temperature Sensor

Electrical Characteristics

Supply Voltage	2.2 – 3.6 V
Supply Current (Max)	12.5 μ A

Termination Features

Wire/Cladding/Connection	SMD
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Dimensions

Width	4 mm [.157 in]
Length	4 mm [.157 in]
Height	.85 mm [.033 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, 24 bit
Accuracy	\pm .1 °C
Output Interface	I2C, SPI



Packaging Features

Package	QFN16
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Product Compliance

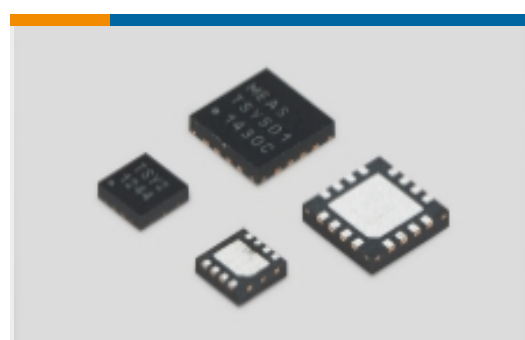
[For compliance documentation, visit the product page on TE.com>](#)

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	Aktuelle ECHA Kandidatenliste: JAN 2019 (197) Kandidatenliste deklariert bezüglich: JAN 2017 (173)
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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0.1 DEG C ACCURACY QFN TEMP SENSOR

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TE Internal #: G-NICO-018



TE Part #2-1614885-8
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25PPM 1K RL



TE Part #147873-2
SWITCH, TACT, SMT, J-
LEAD, 4.3MM



TE Part #3-1879216-4
CPF0402 180K 0.1%
25PPM 1K RL



TE Part #1-1879417-0
CPF 0603 430K 0.1%
25PPM 1K RL



TE Part #G-NIMO-003
0.2 DEG C ACCURACY I2C
TEMP SENSOR



TE Part #1571563-2
FSM4JSMLXTR=TACT,
SMT, T&R

Documents

Datasheets & Catalog Pages

TSYS01

English

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