# MEAS | MEAS TSYS

TE Internal #: 20011957-00

TE Internal Description: TSYS03 TEMP SENSOR TDFN8 2.5X2.5MM

I2C

TSYS03 DIGITAL TEMPERATURE SENSOR

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Sensor Package: TDFN8

Resolution: 16 bit

Accuracy (at T\_ref): ± .5 °C Output Interface: I2C Supply Voltage: 2.4 – 5.5 V

### All TSYS03 DIGITAL TEMPERATURE SENSOR (2)

## **Features**

Product Type Features	
Sensor Package	TDFN8
Configuration Features	
Electrical Connection	SMD
Electrical Characteristics	
Supply Voltage	2.4 – 5.5 V
Supply Current (Max)	400 μΑ
Dimensions	
Product Length	2.5 mm[.098 in]
Product Width	2.5 mm[.098 in]
Product Height	.75 mm[.03 in]
Usage Conditions	
Accuracy T_Range	-5 – 50 °C
Operating Temperature Range	-40 - 125 °C[-40 - 257 °F]

± .5 °C

Accuracy (at T\_ref)

Operation/Application



Output Interface	I2C
Other	
Resolution	16 bit

# **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	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: JUNE 2024 (241) Candidate List Declared Against: JAN 2024 (240) 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 TSYS





# Customers Also Bought





0.1 DEG C ACCURACY QFN TEMP

SENSOR

















# **Documents**

#### **CAD Files**

3D PDF

3D

Customer View Model
ENG\_CVM\_CVM\_20011957-00\_1.2d\_dxf.zip

English

Customer View Model

ENG\_CVM\_CVM\_20011957-00\_1.3d\_igs.zip



English

**Customer View Model** 

ENG\_CVM\_CVM\_20011957-00\_1.3d\_stp.zip

English

By downloading the CAD file I accept and agree to the **Terms and Conditions** of use.

Datasheets & Catalog Pages

Datasheet TSYS03

English