

# High Accuracy Digital Temperature Sensor IC

## 1 Features

- Fully calibrated and linearized digital output
- Wide supply voltage range, from 2.4V to 5.5V
- I2C Interface with communication speeds up to 1MHz and two user selectable addresses
- Typical accuracy of  $\pm 0.3^{\circ}\text{C}$
- Very fast start-up and measurement time
- Measures Temperatures from  $-40^{\circ}\text{C}$  to  $125^{\circ}\text{C}$
- $\pm 0.1^{\circ}\text{C}$  Accuracy from  $35^{\circ}\text{C}$  to  $+45^{\circ}\text{C}$
- Converts Temperature to 16-Bit Digital Word in 2ms

## 2 Applications

- General System Thermal Management
- Computer Peripheral Thermal Protection
- Thermal Protection
- Power-system Monitors

## 3 Description

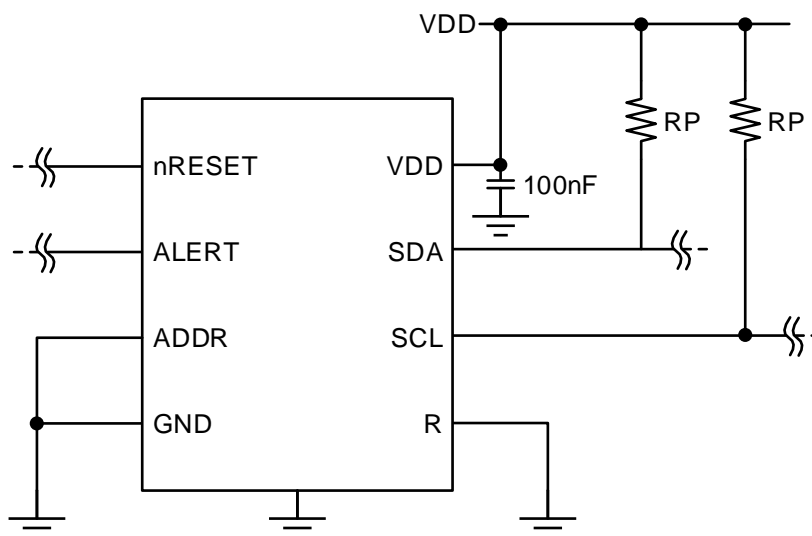
The GD30TS003T is GigaDevice's new high accuracy digital temperature sensor. Its functionality includes enhanced signal processing, two distinctive and user selectable I2C addresses and communication speeds of up to 1MHz. The DFN package has a footprint of 3mm x 3mm while keeping a height of 0.75 mm. This allows for integration of the GD30TS003T into a great variety of applications. Additionally, the wide supply voltage range of 2.4V to 5.5V guarantees compatibility with a wide range of applications.

Device Information<sup>1</sup>

PART NUMBER	PACKAGE	BODY SIZE (NOM)
GD30TS003T	DFN-8	3.00mm x 3.00mm
		2.50mm x 2.50mm

1. For packaging details, see [Package Information](#) section.

## Simple Schematic Diagram



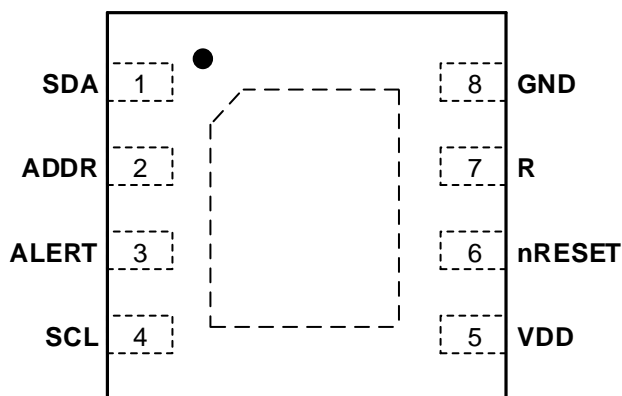
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## 4 Device Overview

### 4.1 Pinout and Pin Assignment

DFN Package  
8-Pin Top View



### 4.2 Pin Description

PINS		PIN TYPE <sup>1</sup>	FUNCTION
NAME	NUM		
SDA	1	IO	Serial data.
ADDR	2	I	Address pin, connect to either VDD or VSS, do not leave floating ADDR = 0, I2C Address is 0x44 ADDR = 1, I2C Address is 0x45
ALERT	3	O	Indicates alarm condition, must be left float if no used.
SCL	4	I	Serial clock.
VDD	5	P	Supply voltage.
nRESET	6	I	Reset pin active now, if not used it is recommended to connect to VDD.
R	7		No use.
GND	8	G	Ground.

1. P = power, G = Ground, I = input, O = Output, IO=input and output.

## 5 Parameter Information

### 5.1 Absolute Minimum and Maximum Ratings

Exceeding the operating temperature range (unless otherwise noted)<sup>1</sup>

SYMBOL	PARAMETER	MIN	MAX	UNIT
V <sub>DD</sub>	Power supply	-0.3	6	V
V <sub>IO</sub>	Voltage at SCL, SDA, and ADDR	-0.3	V <sub>DD</sub> +0.3	V
V <sub>ALERT</sub>	Voltage at ALERT	-0.3	V <sub>DD</sub> +0.3	V
I <sub>IN</sub>	Input current on any range	-100	100	mA
T <sub>A</sub>	Operating temperature	-40	125	°C
T <sub>J</sub>	Junction temperature		150	°C
T <sub>stg</sub>	Storage temperature	-40	150	°C

1. Minimum and maximum ratings; values may only be applied for short time periods.

### 5.2 Recommended Operation Conditions

SYMBOL <sup>1</sup>	PARAMETER	MIN	TYP	MAX	UNIT
V <sub>DD</sub>	Supply voltage	2.4	3.3	5.5	V
T <sub>A</sub>	Operating Temperature	-40		125	°C

1. Unless otherwise stated, over operating free-air temperature range.

### 5.3 Electrical Sensitivity

SYMBOL <sup>1</sup>	CONDITIONS	VALUE	UNIT
V <sub>ESD(HBM)</sub>	Human-body model (HBM), ANSI/ESDA/JEDEC JS-001-2017 <sup>1</sup>	±4000	V
V <sub>ESD(CDM)</sub>	Charge-device model (CDM), ANSI/ESDA/JEDEC JS-002-2022 <sup>2</sup>	±750	V

1. JEDEC document JEP155 states that 500-V HBM allows safe manufacturing with a standard ESD control process.

2. JEDEC document JEP157 states that 250-V CDM allows safe manufacturing with a standard ESD control process.

## 5.4 Electrical Characteristics

Electrical characteristics of devices at  $T_A = +25^{\circ}\text{C}$  and typical  $V_{DD}$ , unless otherwise noted.

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
$V_{DD}$	Power Supply Voltage		2.4	3.3	5.5	V
$V_{POR}$	Power-up/down level		2.2	2.3	2.4	V
$V_{DD,slew}$	Slew rate change of the supply voltage	Voltage changes on the $V_{DD}$ line between $V_{DD,min}$ and $V_{DD,max}$ should be slower than the maximum slew rate			20	V/ms
$I_{DD}$	Supply current	Current when sensor is not performing a measurement during single shot mode		0.15	2	$\mu\text{A}$
		Current when sensor is not performing a measurement during periodic data acquisition mode		45	70	
		Current consumption while sensor is measuring		600	1200	
		Current consumption (operation with one measurement per second at lowest repeatability, single shot mode)		2	5	
$I_{OH}$	Alert Output driving		$0.8 \times V_D$	$1.5 \times V_D$	$2.1 \times V_{DD}$	mA

## 5.5 Timing Specification for the Sensor System

System timing specification, valid from  $-40^{\circ}\text{C}$  to  $125^{\circ}\text{C}$  and 2.4 V to 5.5 V.

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
$T_{PU}$	Power-up time	After hard reset, $V_{DD} \geq V_{POR}$		0.5	1	ms
$T_{SR}$	Soft reset time	After soft reset		0.5	1	ms
$T_{RESENTN}$	Duration of reset pulse		350			ns
$T_{MEAS,l}$	Measurement duration	Low repeatability		2	4	ms
$T_{MEAS,m}$		Medium repeatability		4.5	6	ms
$T_{MEAS,h}$		High repeatability		12.5	15	ms

## 5.6 Temperature Sensor Performance

PARAMETER	CONDITIONS	VALUE	UNIT
Accuracy tolerance	35°C to 45°C	±0.1	°C
Accuracy tolerance	0°C to 90°C	±0.3	°C
Repeatability	Low	0.24	°C
	Medium	0.12	°C
	High	0.06	°C
Resolution	Typ	0.015	°C
Specified Range		-40 to 125	°C
Response time	$\tau_{63\%}$	>1	s
Long Term Drift	Max	<0.02	°C/y

## 6 Functional Description

The GD30TS003T supports I2C fast mode (and frequencies up to 1000kHz). Clock stretching can be enabled and disabled through the appropriate user command. For detailed information on the I2C protocol, refer to NXP I2C-bus specification7.

All GD30TS003T commands and data are mapped to a 16-bit address space. Additionally, data and commands are protected with a CRC checksum. This increases communication reliability. The 16 bits commands to the sensor already include a 3 bit CRC checksum. Data sent from and received by the sensor is always succeeded by a 8 bit CRC.

In write direction it is mandatory to transmit the checksum, since the GD30TS003T only accepts data if it is followed by the correct checksum. In read direction it is left to the master to read and process the checksum.

### 6.1 Pin Functional

#### 6.1.1 Power Pins(VDD)

The power supply pins must be decoupled with a 100nF capacitor that shall be placed as closed to the sensor as possible.

#### 6.1.2 Serial Clock and Serial Data(SCL, SDA)

SCL is used to synchronize the communication between microcontroller and the sensor. The clock frequency can be freely chosen between 0 to 1MHz. Commands with clock stretching according to I2C Standard are supported.

The SDA pin is used to transfer data to and from the sensor. Communication with frequencies up to 400KHz must meet the I2C Fast Mode standard. Communication frequencies up to 1MHz are supported.

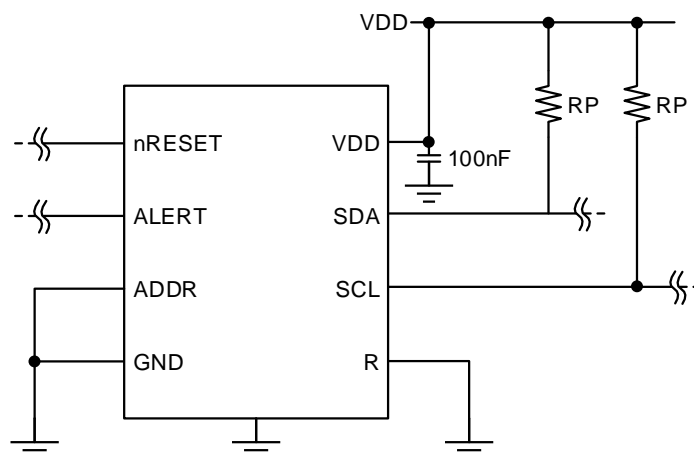
Both SCL and SDA lines are open-drain I/Os with diodes to the VDD and VSS. They should be connected to external pull-up resistors. A device on the I2C bus must only drive a line to ground. The external pull-up resistors (e.g.  $R_p = 4.7k\Omega$ ) are required to pull the signal high. For dimensioning resistor sizes please take bus capacity and communication frequency into account. It should be noted that pull-up resistors may be included in I/O circuits of microcontrollers. It is recommended to wire the sensor according to the application circuit as show in [Figure 2](#).

#### 6.1.3 ADDR pin

Through the appropriate wiring of the ADDR pin the I2C address can be selected. The ADDR pin can either be connected to logic high or low. The address of the sensor can be changed dynamically during operation by switching the level on the ADDR pin. The only constraint is that the level has to stay constant starting from the I2C start condition until the communication is finished. This allows to connect two GD30TS003T onto the same bus.

The dynamical switching required individual ADDR lines to the sensors.

Please note that the I2C address is represented through the 7 MSBs of the I2C read or write header. The LSB switches between read and write header. The wiring for the default address is shown in [Table 1](#) and [Figure 1](#). Typical application circuits The ADDR pin must not be left floating. Please note that only the 7 MSBs of the I2C Read/write header constitute the I2C Address.



1. Please note that the positioning of the pins does not reflect the position on the real sensor

**Figure 1. Typical application circuits**

**Table 1. I2C device Address**

GD30TS003T	I2C ADDRESS in HEX.REPRESENTATION	CONDITION
I2C Address A	0x44(default)	ADDR (pin 2) connected to logic low
I2C Address B	0x45	ADDR (pin 2) connected to logic high

## 6.2 Power-Up and Communication Start

The sensor starts powering-up after reaching the power-up threshold voltage  $V_{POR}$  specified in [section 5.4](#). After reaching this threshold voltage the sensor needs the time  $t_{PU}$  to enter idle state. Once the idle state is entered it is ready to receive commands from the master (microcontroller).

Each transmission sequence begins with a START condition (S) and ends with a STOP condition (P) as described in the I2C-bus specification. The stop condition is optional. Whenever the sensor is powered up, but not performing a measurement or communicating, it automatically enters idle state for energy saving. This idle state cannot be controlled by the user.

## 6.3 Starting a Measurement

A measurement communication sequence consists of a START condition, the I2C write header (7-bit I2C device address plus 0 as the write bit) and a 16-bit measurement command. The proper reception of each byte is indicated by the sensor. It pulls the SDA pin low (ACK bit) after the falling edge of the 8th SCL clock to indicate the reception. A complete measurement cycle is depicted in [Table 2](#).

With the acknowledgement of the measurement command, the GD30TS003T starts measuring the temperature.

## 6.4 Measurement Commands for Single Shot Data Acquisition Mode

In this mode one issued measurement command triggers the acquisition of a 16bit temperature value. During transmission that value is always followed by a CRC checksum, see [section 6.5](#).

In single shot mode different measurement commands can be selected. The 16bit commands are shown in [Table 2](#). They differ with respect to repeatability (low, medium and high) and clock stretching (enabled or disabled).



The repeatability setting influences the measurement duration and thus the overall power consumption of the sensor. This is explained in [section 5.5](#).

## 6.5 Readout of Measurement Results for Single Shot Mode

After the sensor has completed the measurement, the master can read the measurement result by sending a START condition followed by an I2C read header. The sensor will acknowledge the reception of the read header and send one bytes of data (temperature) followed by one byte CRC checksum. Each byte must be acknowledged by the microcontroller with an ACK condition for the sensor to continue sending data. If the sensor does not receive an ACK from the master after any byte of data, it will not continue sending data.

After receiving the checksum for the temperature value a NACK and stop command should be send by the master (see [Table 2](#)).

The I2C master can abort the read transfer with a NACK condition after any data byte if it is not interested in the CRC.

In case the user needs the temperature data but does not want to process CRC data, it is recommended to read the two temperature bytes, then the read transfer can be aborted with a with a NACK.

### 6.5.1 No Clock Stretching

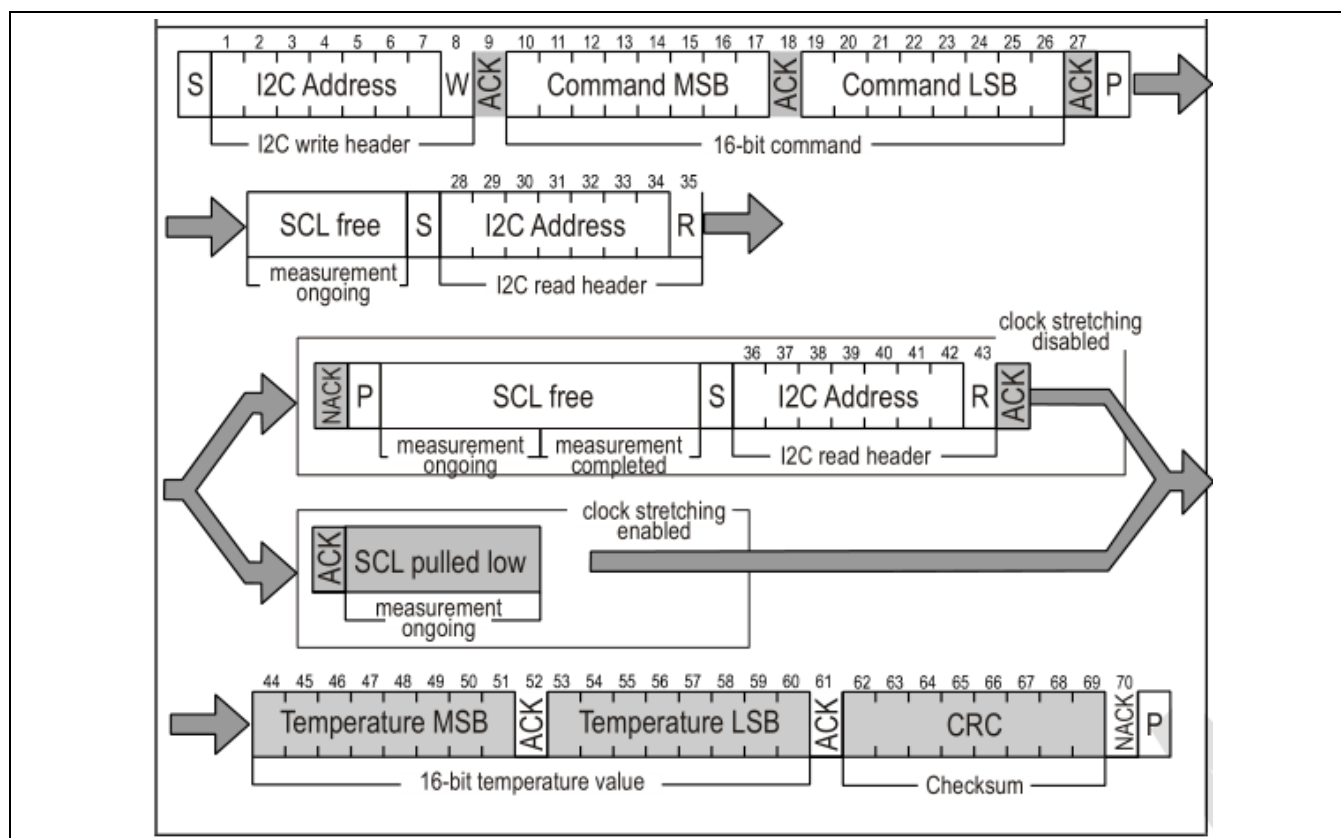
When a command without clock stretching has been issued, the sensor responds to a read header with a not acknowledge (NACK), if no data is present.

### 6.5.2 Clock Stretching

When a command with clock stretching has been issued, the sensor responds to a read header with an ACK and subsequently pulls down the SCL line. The SCL line is pulled down until the measurement is complete. As soon as the measurement is complete, the sensor releases the SCL line and sends the measurement results.

**Table 2. Measurement commands in single shot mode (Clear blocks are controlled by the microcontroller, grey blocks by the sensor)**

CONDITION		HEX CODE	
REPEATABILITY	CLOCK STRETCHING	MSB	LSB
High	enabled	0x2C	06
Medium			0D
Low			10
High	disabled	0x24	00
Medium			0B
Low			16



## 6.6 Measurement Commands for Periodic Data Acquisition Mode

In this mode one issued measurement command yields a stream of 16bit temperature values.

In periodic mode different measurement commands can be selected. The corresponding 16bit commands are shown in [Table 3](#). They differ with respect to repeatability (low, medium and high) and data acquisition frequency (0.5, 1, 2, 4 & 10 measurements per second, mps). Clock stretching cannot be selected in this mode.

The data acquisition frequency and the repeatability setting influences the measurement duration and the current consumption of the sensor. This is explained in [section 5.5](#) of this datasheet.

If a measurement command shall be issued, while the sensor is busy with a measurement (measurement durations see [section 5.5](#)), it is recommended to issue a break command first (see [section 0](#)). Upon reception of the break command the sensor will finish the ongoing measurement and enter the single shot mode.

**Table 3. Measurement commands for periodic data acquisition mode (Clear blocks are controlled by the microcontroller, grey blocks by the sensor). N.B.: At the highest mps setting self- heating of the sensor might occur**

CONDITION		HEX CODE	
REPEATABILITY	MPS	MSB	LSB
High	0.5	0x20	32
Medium			24
Low			2F
High	1	0x21	30
Medium			26

CONDITION		HEX CODE	
REPEATABILITY	MPS	MSB	LSB
Low	2	0x22	2D
High			36
Medium			20
Low			2B
High	4	0x23	34
Medium			22
Low			29
High	10	0x27	37
Medium			21
Low			2A

1 2 3 4 5 6 7 8 9 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

S I2C Address W Command MSB Command LSB

I2C write header 16-bit command

## 6.7 Readout of Measurement Results for Periodic Mode

Transmission of the measurement data can be initiated through the fetch data command shown in Table 4. If no measurement data is present the I2C read header is responded with a NACK (Bit 9 in Table 4) and the communication stops. The fetch data command will deliver the same data until a new measurement updates the temperature value.

**Table 4. Fetch Data command (Clear blocks are controlled by the microcontroller, grey blocks by the sensor)**

COMMAND	HEX CODE
Fetch Data	0x E0 00

13 14 15 16 17 18 19 20 21 22 23 24 25 26 27

S I2C Address W ACK Command MSB ACK Command LSB ACK P

I2C write header 16-bit command

1 2 3 4 5 6 7 8 9

S I2C Address R ACK

I2C read header

10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36

Temperature MSB ACK Temperature LSB ACK CRC NACK P

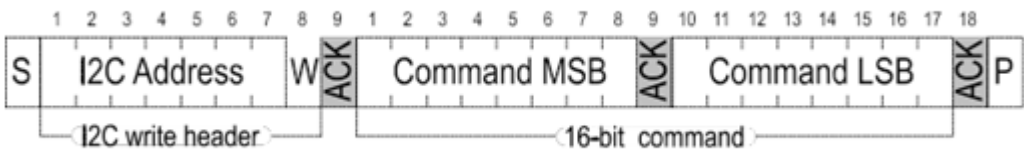
16-bit temperature value Checksum

## 6.8 Break command/Stop Periodic Data Acquisition Mode

he periodic data acquisition mode can be stopped using the break command shown in Table 5. It is recommended to stop the periodic data acquisition prior to sending another command (except Fetch Data command) using the break command. Upon reception of the break command the sensor enters the single shot mode, after finishing the ongoing measurement. This can take up to 15ms, depending on the selected repeatability.

**Table 5. Break command (Clear blocks are controlled by the microcontroller, grey blocks by the sensor)**

COMMAND	HEX CODE
Break	0x3093

## 6.9 Reset

A system reset of the GD30TS003T can be generated externally by issuing a command (soft reset) or by sending a pulse to the dedicated reset pin (nRESET pin). Additionally, a system reset is generated internally during power-up. During the reset procedure the sensor will not process commands.

In order to achieve a full reset of the sensor without removing the power supply, it is recommended to use the nRESET pin of the GD30TS003T.

### 6.9.1 Interface Reset

If communication with the device is lost, the following signal sequence will reset the serial interface: While leaving SDA high, toggle SCL nine or more times. This must be followed by a Transmission Start sequence preceding the next command. This sequence resets the interface only. The status register preserves its content.

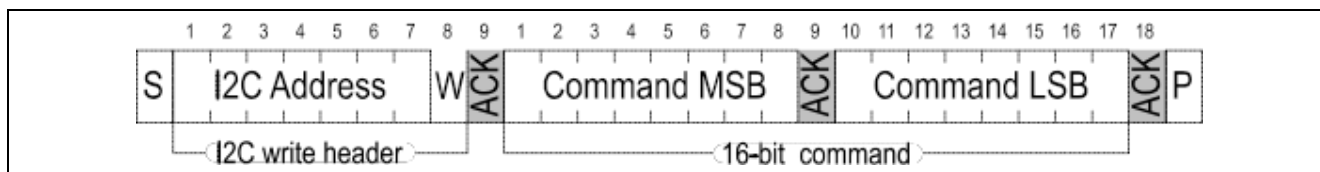
### 6.9.2 Soft Reset / Re-Initialization

The GD30TS003T provides a soft reset mechanism that forces the system into a well-defined state without removing the power supply. When the system is in idle state the soft reset command can be sent to the GD30TS003T. This triggers the sensor to reset its system controller and reloads calibration data from the memory. In order to start the soft reset procedure the command as shown in Table 6 should be sent.

It is worth noting that the sensor reloads calibration data prior to every measurement by default.

**Table 6. Soft reset command (Clear blocks are controlled by the microcontroller, grey blocks by the sensor)**

COMMAND	HEX CODE
Soft Reset	0x30A2



## 6.10 Reset through General Call

Additionally, a reset of the sensor can also be generated using the “general call” mode according to I2C-bus specification<sup>7</sup>. This generates a reset which is functionally identical to using the nReset pin. It is important to understand that a reset generated in this way is not device specific. All devices on the same I2C bus that support the general call mode will perform a reset. Additionally, this command only works when the sensor is able to process I2C commands. The appropriate command consists of two bytes and is shown in [Table 7](#).

**Table 7. Reset through the general call address (Clear blocks are controlled by the microcontroller, grey blocks by the sensor)**

COMMAND	HEX CODE
Address byte	0x00
Second byte	0x06
Reset command using the general call address	0x006

### 6.10.1 Reset through the nReset Pin

Pulling the nReset pin low (see [section 4.2](#)) generates a reset similar to a hard reset. The nReset pin is internally connected to VDD through a pull-up resistor and hence active low. The nReset pin has to be pulled low for a minimum of 350 ns to generate a reset of the sensor.

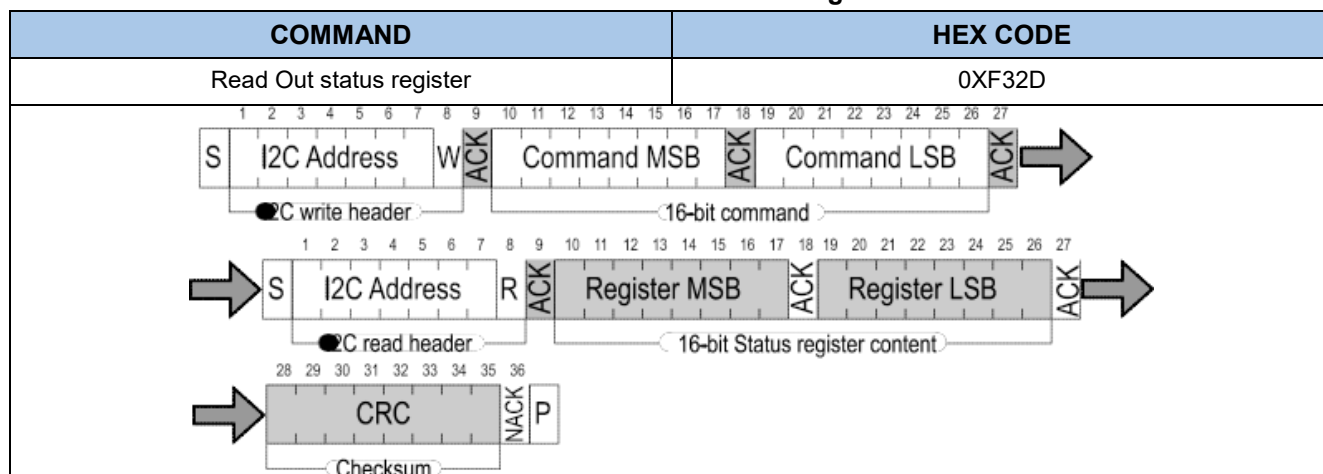
### 6.10.2 Hard Reset

A hard reset is achieved by switching the supply voltage to the VDD Pin off and then on again. In order to prevent powering the sensor over the ESD diodes, the voltage to pins 1 (SDA), 4 (SCL) and 2 (ADDR) also needs to be removed.

## 6.11 Status Register

The status register contains information on the operational status of the heater, the alert mode and on the execution status of the last command and the last write sequence. The command to read out the status register is shown in [Table 8](#) whereas a description of the content can be found in [Table 10](#).

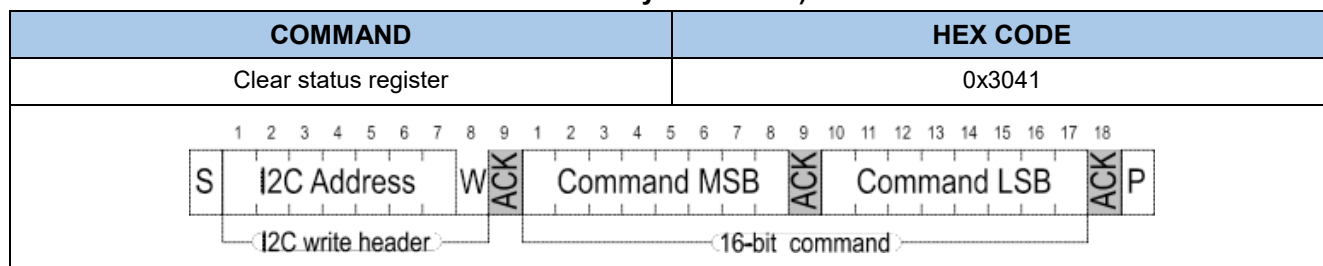
Table 8. Command to status register



### 6.11.1 Clear Status Register

All flags (Bit 15, 10, 4) in the status register can be cleared (set to zero) by sending the command shown in [Table 9](#).

Table 9. Command to clear the status register (Clear blocks are controlled by the microcontroller, grey blocks by the sensor)



Measurement commands in single shot mode (Clear blocks are controlled by the microcontroller, grey blocks by the sensor)

Table 10. Description of the status register

BIT	FILED DESCRIPTION	DEFAULT
15	Alert pending status '0': no pending alerts '1': at least one pending alert	'1'
14	Reserved	'0'
13	Reserved	'0'
12:11	Reserved	'00'
10	T tracking alert '0': no alert '1': alert	'0'
9:5	Reserved	'xxxx'
4	System reset detected '0': no reset detected since last clear status register command '1': reset detected (hard reset , soft reset command or supply fail)	'1'

BIT	FILED DESCRIPTION	DEFAULT
3:2	Reserved	'00'
1	Command status '0': last command executed successfully '1': last command not processed. It was either invalid, failed the intergrated command chechsum	'0'
0	Write data checksum status '0': checksum of last write transfer was correct '1': checksum of last write transfer failed	'0'

## 6.12 Checksum Calculation

The 8-bit CRC checksum transmitted after each data word is generated by a CRC algorithm. Its properties are displayed in [Table 11](#). The CRC covers the contents of the two previously transmitted data bytes. To calculate the checksum only these two previously transmitted data bytes are used.

**Table 11. I2C CRC properties**

PROPERTY	VALUE
Name	CRC-8
Width	8 bit
Protected data	Read and/or write data
Polynomial	$0X31(x8 + x5 + x4 + 1)$
Initialization	0xFF
Reflect input	False
Reflect output	False
Final XOR	0x00
Examples	$CRC(0xBEEF) = 0x92$

## 6.13 Conversion of Signal Output

Measurement data is always transferred as 16-bit values (unsigned integer). These values are already linearized and compensated for supply voltage effects. Converting those raw values into a physical scale can be achieved using the following formulas.

Temperature conversion formula (result in °C & °F):

$$T[^{\circ}\text{C}] = -45 + 175 \cdot S\_T / (2^{16} - 1)$$

$$T[^{\circ}\text{F}] = -49 + 315 \cdot S\_T / (2^{16} - 1)$$

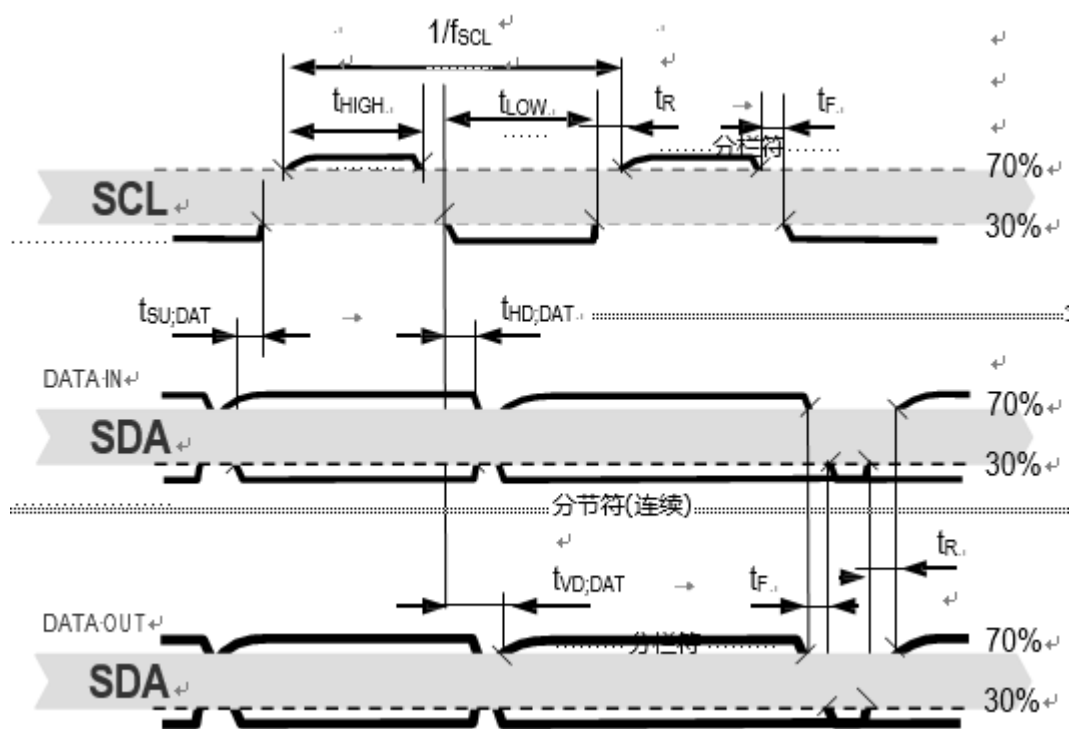
ST denotes the raw sensor output for temperature. The formulas work only correctly when ST is used in decimal representation.

## 6.14 Communication Timing

**Table 12. Communication timing specifications for I2C fm (fast mode), Specification are at 25°C and typical VDD. The numbers above are values according to the I2C Specification (UM10204, Rev. 6, April 4, 2014)**

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
f <sub>SCL</sub>	SCL clock frequency		0		1000	kHz
t <sub>HD,STA</sub>	Hold time (repeated) START condition	After this period, the first clock pulse is generated	0.24			μs
t <sub>LOW</sub>	LOW period of the SCL clock		0.65			μs
t <sub>HIGH</sub>	HIGH period of the SCL clock		0.26			ns
t <sub>HDDAT</sub>	SDA hold time	Transmitting data	60		250	ns
		Receiving data	0			ns
t <sub>SUDAT</sub>	SDA set-up time		100			ns
t <sub>R</sub>	SCL/SDA rise time				300	ns
t <sub>F</sub>	SCL/SDA fall time				300	ns
t <sub>VD,DAT</sub>	SDA valid time				0.9	μs
t <sub>SU,STA</sub>	Set-up time for a repeated START condition		0.6			μs
t <sub>SU,STO</sub>	Set-up time for STOP condition		0.6			μs
CB	Capacitive load on bus line				400	pF
V <sub>IL</sub>	Low level input voltage		-0.5		0.3V <sub>DD</sub>	V
V <sub>IH</sub>	High level input voltage		0.7V <sub>DD</sub>		1xV <sub>DD</sub>	V
V <sub>OL</sub>	Low level output voltage	3 mA sink current			0.66	V





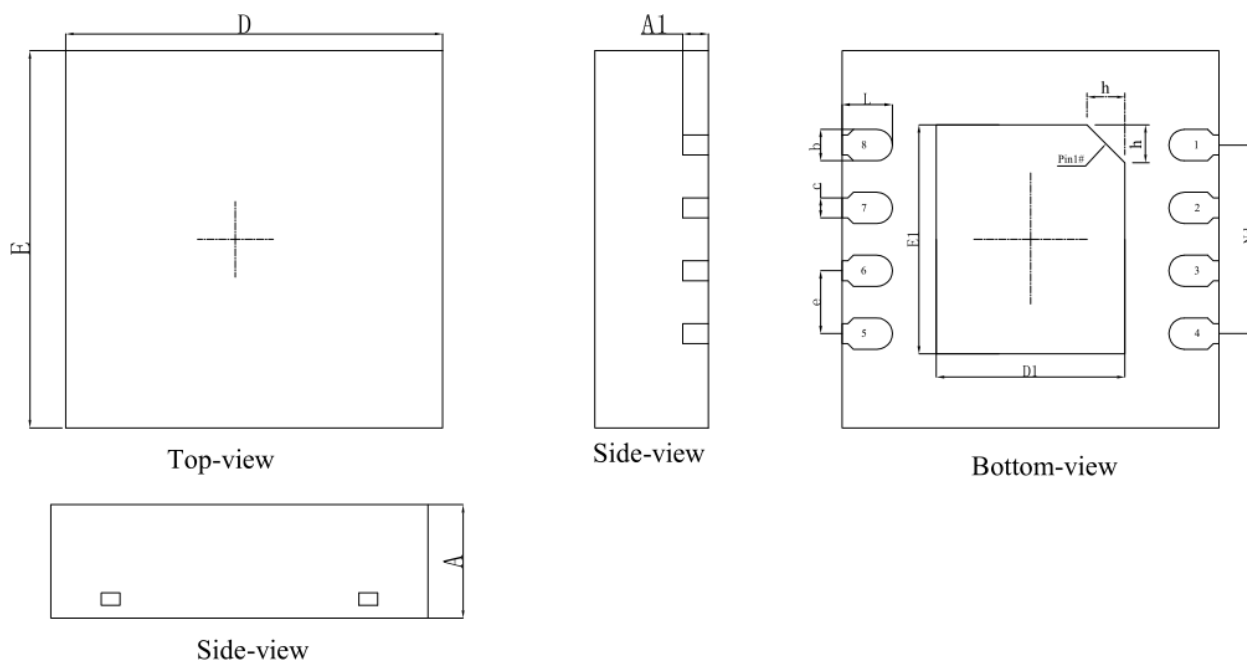
1. SDA directions are seen from the sensor. Bold SDA lines are controlled by the sensor, plain SDA lines are controlled by the micro-controller. Note that SDA valid read time is triggered by falling edge of preceding toggle

**Figure 2. Timing diagram for digital input/output pads**

## 7 Package Information

### 7.1 Outline Dimension

**DFN-8(3x3) Package Outline**



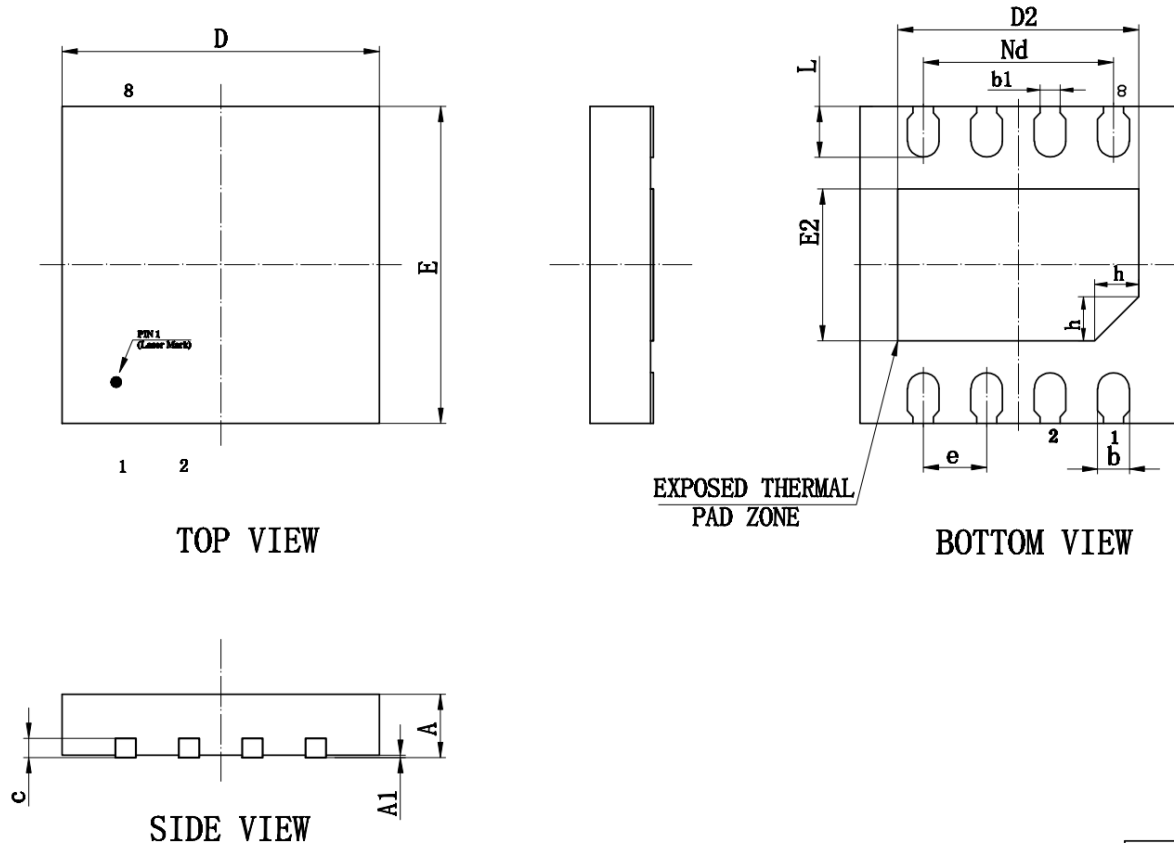
#### NOTES:

1. All dimensions are in millimeters.
2. Package dimensions does not include mold flash, protrusions, or gate burrs.
3. Refer to the [Table 13. DFN-8\(3x3\) dimensions\(mm\)](#).

Table 13. DFN-8(3x3) dimensions(mm)

SYMBOL	MIN	NOM	MAX
A	0.70	0.75	0.80
A1	0.19	0.20	0.21
b	0.20	0.25	0.30
c	0.20 REF		
D	2.90	3.00	3.10
E	2.90	3.00	3.10
D1	1.40	1.50	1.60
E1	1.75	1.85	1.95
e	0.50		
h	0.20	0.30	0.40
L	0.35	0.40	0.45
N	8		
Nd	1.50		

## DFN-8(2.5x2.5) Package Outline



### NOTES:

1. Refer to the [Table 14. DFN-8\(2.5x2.5\) dimensions\(mm\)](#).

**Table 14. DFN-8(2.5x2.5) dimensions(mm)**

SYMBOL	MIN	NOM	MAX
A	0.45	0.50	0.55
A1	0	0.02	0.05
b	0.20	0.25	0.30
b1	0.16 REF		
c	0.10	0.15	0.20
D	2.40	2.50	2.60
D2	1.80	1.90	2.00
e	0.50 BSC		
Nd	1.50 BSC		
E	2.40	2.50	2.60
E2	1.10	1.20	1.30
L	0.35	0.40	0.45
h	0.30	0.35	0.40

## 8 Ordering Information

Ordering Code	Package Type	ECO Plan	Packing Type	MOQ	OP Temp(°C)
GD30TS003TWETR-I	DFN-8(3x3)	Green	Tape & Reel	2000	-40°C to +125°C
GD30TS003TWFTR-I	DFN-8(2.5x2.5)	Green	Tape & Reel	2000	-40°C to +125°C

## 9 Revision History

REVISION NUMBER	DESCRIPTION	DATE
1.0	Initial and device details	2024
1.1	Added DFN-8(2.5x2.5) package	2025

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