



# TDC-E100EU

Telematic Data Collector

GATEWAY SYSTEMS

**SICK**  
Sensor Intelligence.



## Ordering information

Description	Network coverage	Tasks	Items supplied	Type	Part no.
The gateway networks sensors, machines and IIoT platforms for collecting and pre-processing local sensor and process data.	Europe Middle East Africa APAC	Condition monitoring, stock monitoring, user-defined real-time alarms	TDC-E100EU and mobile communication (EU 27+2, M2M SIM card) including connecting cables and operating instructions	TDC-E100EU	6067899

Other models and accessories → [www.sick.com/Telematic\\_Data\\_Collector](http://www.sick.com/Telematic_Data_Collector)



## Detailed technical data

### Features

<b>Product category</b>	Gateway and cloud solutions
<b>Tasks</b>	Condition monitoring Stock monitoring User-defined real-time alarms
<b>Integrated SIM card</b>	✓
<b>Alarm output</b>	Push notification or user-defined action

### Mechanics/electronics

<b>Supply voltage</b>	24 V DC (9 V DC ... 36 V DC)
<b>Power consumption</b>	2.4 W
<b>Housing dimensions (W x D x H)</b>	162 mm x 32 mm x 101 mm
<b>Weight</b>	230 g
<b>Housing material</b>	Polyamide PA6
<b>Housing color</b>	Light blue (RAL 5012)
<b>Fixing</b>	In vehicle or control cabinet
<b>Enclosure rating</b>	IP20 (according to DIN EN 60529)

### Performance

<b>Sensor</b>	Acceleration sensor, Magnetometer, Thermometers
<b>Internal computer</b>	1GB, DD3, dual-core Cortex-A7 with Cortex-M4 co-processor
<b>Internal memory</b>	16 GB
<b>Operating system</b>	Linux
<b>Ecosystem</b>	Docker
<b>User interface</b>	TDC-E Device Manager, Node-RED, picoStratus
<b>Data protocol</b>	MQTT REST API

<sup>1)</sup> Belgium, United Kingdom, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovak Republic, Spain, Sweden, Switzerland, Cyprus.

	OPC UA WebSocket
<b>Data format</b>	JSON
<b>Connectivity</b>	M2M SIM card, EU 27 +2 <sup>1)</sup> Mobile communication (3G) WLAN WPAN LAN
<b>Mobile network</b>	UMTS: 900/2100 MHz, GSM/EDGE: 850/900/1800/1900 MHz
<b>Network coverage</b>	Europe, Middle East, Africa, APAC

<sup>1)</sup> Belgium, United Kingdom, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovak Republic, Spain, Sweden, Switzerland, Cyprus.

## Interfaces

<b>Modem</b>	✓, 3G HSPA+
Data transmission rate	(5.76 Mbit/s ... 14.4 Mbit/s)
Protocol	UMTS: 900/2100 MHz GSM/EDGE: 850/900/1800/1900 MHz
<b>Ethernet</b>	✓ (2)
Data transmission rate	(10 Mbit/s ... 1,000 Mbit/s)
Electrical connection	RJ45
<b>WLAN</b>	✓
Data transmission rate	(80 Mbit/s ... 100 Mbit/s), single band 2.4 GHz
Protocol	IEEE 802.11 b/g/n
<b>WPAN</b>	✓, IEEE 802.15.1, IEEE 802.15.4
<b>Serial</b>	✓, RS-232, RS-422, RS-485, SSI, 1Wire
Electrical connection	Micro-Fit (20-pin)
<b>CAN bus</b>	✓ (2)
Data transmission rate	1 Mbit/s, adjustable
Protocol	J1939, CANOpen
Electrical connection	Micro-Fit (20-pin)
<b>USB</b>	✓, USB 2.0
Electrical connection	USB 2.0 A-Male connector
<b>Inputs/outputs</b>	
I/O	6 analog inputs (configurable, current and voltage), 8 digital inputs/outputs (configurable)
<b>Optical indicators</b>	3, LED, status displays
<b>Configuration interface</b>	Web-Interface

## Ambient data

<b>Ambient temperature, operation</b>	-20 °C ... +70 °C
<b>Ambient temperature, storage</b>	-40 °C ... +85 °C
<b>Shock load</b>	IEC 60068-2-27
<b>Electromagnetic compatibility (EMC)</b>	EN 303446-1 EN 55032 EN 55024 EN 61000-3-2 EN 61000-3-3
<b>Product safety</b>	EN 60950-1

<b>Radio approval</b>	EN 301511 V12.5.1 (2017)
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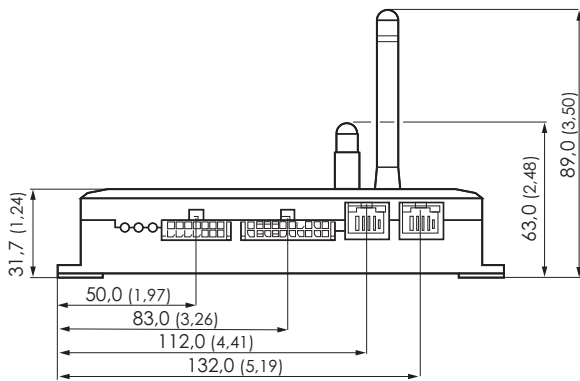
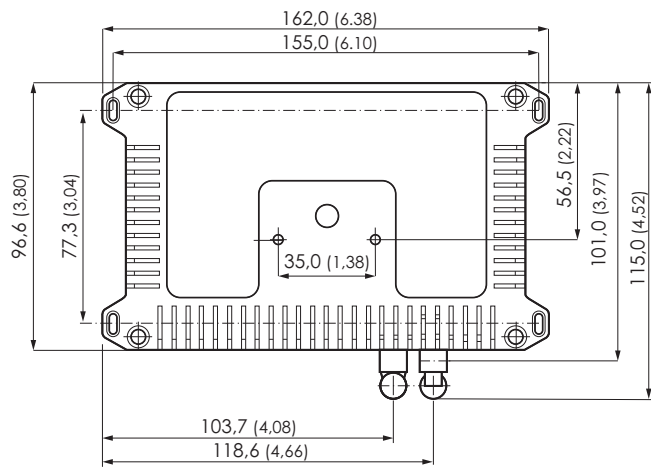
## General notes

<b>Description</b>	The gateway networks sensors, machines and IIoT platforms for collecting and preprocessing local sensor and process data.
<b>Items supplied</b>	TDC-E100EU and mobile communication (EU 27+2, M2M SIM card) including connecting cables and operating instructions

## Classifications

<b>eCl@ss 5.0</b>	19179090
<b>eCl@ss 5.1.4</b>	19179090
<b>eCl@ss 6.0</b>	19179090
<b>eCl@ss 6.2</b>	19179090
<b>eCl@ss 7.0</b>	19179090
<b>eCl@ss 8.0</b>	19179090
<b>eCl@ss 8.1</b>	19179090
<b>eCl@ss 9.0</b>	19179090
<b>eCl@ss 10.0</b>	19179090
<b>eCl@ss 11.0</b>	19179090
<b>eCl@ss 12.0</b>	19179090
<b>UNSPSC 16.0901</b>	43222605

Dimensional drawing (Dimensions in mm (inch))



## SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is “Sensor Intelligence.”

## WORLDWIDE PRESENCE:

Contacts and other locations –[www.sick.com](http://www.sick.com)