

TDC-E200EU

Telematic Data Collector

GATEWAY SYSTEMS





Ordering information

Description	Network coverage	Items supplied	Туре	Part no.
The gateway net- works sensors, ma- chines and IIoT plat- forms for collecting and preprocess- ing local sensor and process data.	Europe Middle East Africa APAC	TDC-E200EU with mobile communi- cation (EU 27+2, 500 MB flow of data) including connecting ca- bles and operat- ing instructions	TDC-E200EU	6067898

Other models and accessories

www.sick.com/Telematic_Data_Collector



Detailed technical data

Features

Product category	Gateway and cloud solutions
Integrated SIM card	√
Alarm output	Push notification or user-defined action

Mechanics/electronics

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

Performance

Sensor	Acceleration sensor, Magnetometer, Thermometers
Internal computer	1GB, DD3, dual-core Cortex-A7 with Cortex-M4 co-processor
Internal memory	16 GB
Operating system	Linux
Ecosystem	Docker
User interface	TDC-E Device Manager, Node-RED, picoStratus
Data protocol	MQTT REST API OPC UA WebSocket
Data format	JSON
Connectivity	M2M SIM card, EU 27 +2 ¹⁾

¹⁾ 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.

	Mobile communication (3G) WLAN WPAN LAN
Mobile network	UMTS: 900/2100 MHz, GSM/EDGE: 850/900/1800/1900 MHz
Network coverage	Europe, Middle East, Africa, APAC

¹⁾ 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

Protocol Electrical connection MCX Modem Data transmission rate Protocol Data transmission rate Electrical connection WLAN Data transmission rate Protocol Electrical connection Electrical connection Electrical connection Electrical connection Electrical connection Electrical connection CAN bus Data transmission rate Protocol Electrical connection Electrical connection CAN bus Data transmission rate Protocol Electrical connection Electrical connection CAN bus Data transmission rate Protocol Electrical connection Electrical connection Frotocol Electrical connection Electrical connection Frotocol Electrical connection Electrical connection Frotocol Electrical connection Electrical connection Electrical connection USB Electrical connection USB Electrical connection Frotocol Electrical connection USB 2.0 Ele	GPS	√, L1 C/A satellite-based extension system: WAAS, EGNOS, MSAS, GAGAN
Modem Data transmission rate (5.76 Mbit/s 14.4 Mbit/s) UMTS: 900/2100 MHz GSM/EDGE: 850/900/1800/1900 MHz	Protocol	GPS, GLONASS, BeiDo, Galileo
Data transmission rate (5.76 Mbit/s 14.4 Mbit/s) Protocol UMTS: 900/2100 MHz GSM/EDGE: 850/900/1800/1900 MHz Ethernet ✓ (2) Data transmission rate Electrical connection RJ45 WLAN ✓ Data transmission rate (80 Mbit/s 100 Mbit/s), single band 2.4 GHz Protocol IEEE 802.11 b/g/n WPAN ✓ , IEEE 802.15.1, IEEE 802.15.4, IEEE 802.15.3 Serial ✓ , RS-232, RS-422, RS-485, SSI, 1Wire Micro-Fit (20-pin) CAN bus ✓ (2) Data transmission rate 1 Mbit/s, adjustable 11939, CANOpen Electrical connection Micro-Fit (20-pin) USB ✓ , USB 2.0 USB 2.0 USB 2.0 USB 2.0 A-Male connector Inputs/outputs I/O 6 analog inputs (configurable, current and voltage), 8 digital inputs/outputs (configurable) Optical indicators	Electrical connection	MCX
Protocol Ethernet ✓ (2) Data transmission rate (10 Mbit/s 1,000 Mbit/s) RJ45 WLAN Data transmission rate (80 Mbit/s 100 Mbit/s), single band 2.4 GHz IEEE 802.11 b/g/n WPAN Serial Electrical connection Micro-Fit (20-pin) CAN bus Data transmission rate (2) Data transmission rate (80 Mbit/s 100 Mbit/s), single band 2.4 GHz IEEE 802.15.1, IEEE 802.15.3, IEEE 802.15.3 ✓ , IEEE 802.15.1, IEEE 802.15.3, IWire Micro-Fit (20-pin) USB Electrical connection Micro-Fit (20-pin) V, USB 2.0 Electrical connection Inputs/outputs I/O Optical indicators UMTS: 900/2100 MHz € (2) Data transmission rate (80 Mbit/s 1,000 Mbit/s), single band 2.4 GHz IEEE 802.15.4, IEEE 802.15.3 ✓ , IEEE 802.15.4, IEEE 802.15.3 ✓ , RS-232, RS-422, RS-485, SSI, 1Wire Micro-Fit (20-pin) ✓ (2) USB Electrical connection Micro-Fit (20-pin) ✓ , USB 2.0 USB 2.0 A-Male connector Inputs/outputs I/O Optical indicators	Modem	✓, 3G HSPA+
Ethernet ✓ (2) Data transmission rate Electrical connection WLAN Data transmission rate Protocol Protocol Electrical connection WPAN Serial Electrical connection Electrical connection Micro-Fit (20-pin) CAN bus Data transmission rate Electrical connection Electrical connection Micro-Fit (20-pin) USB Electrical connection Micro-Fit (20-pin) USB Electrical connection Micro-Fit (20-pin) USB 2.0 A-Male connector USB 2.0 A-Male connector Inputs/outputs I/O 6 analog inputs (configurable, current and voltage), 8 digital inputs/outputs (configurable) Optical indicators	Data transmission rate	(5.76 Mbit/s 14.4 Mbit/s)
Data transmission rate Electrical connection WLAN Data transmission rate Protocol WPAN Serial Electrical connection CAN bus Data transmission rate Protocol Electrical connection Micro-Fit (20-pin) J (2) Data transmission rate Protocol Electrical connection Electrical connection Micro-Fit (20-pin) J (2) Data transmission rate Protocol Electrical connection Electrical connection Micro-Fit (20-pin) J (393, CANOpen Micro-Fit (20-pin) WSB J (30-pin) J (3	Protocol	·
Electrical connection WLAN Data transmission rate (80 Mbit/s 100 Mbit/s), single band 2.4 GHz EEE 802.11 b/g/n Frotocol	Ethernet	√ (2)
### Data transmission rate (80 Mbit/s 100 Mbit/s), single band 2.4 GHz Protocol IEEE 802.11 b/g/n	Data transmission rate	(10 Mbit/s 1,000 Mbit/s)
Data transmission rate Protocol IEEE 802.11 b/g/n WPAN V, IEEE 802.15.1, IEEE 802.15.4, IEEE 802.15.3 Serial A, RS-232, RS-422, RS-485, SSI, 1Wire Electrical connection Micro-Fit (20-pin) V (2) Data transmission rate Protocol J1939, CANOpen Micro-Fit (20-pin) USB V, USB 2.0 Electrical connection USB 2.0 A-Male connector Inputs/outputs I/O Optical indicators (80 Mbit/s 100 Mbit/s), single band 2.4 GHz IEEE 802.15.4, IEEE 802.15.3 V, RS-232, RS-422, RS-485, SSI, 1Wire Micro-Fit (20-pin) V (2) USB 2.0 USB 2.0 A-Mole connector Inputs/outputs J/O Optical indicators J/O Optical indicators	Electrical connection	RJ45
Protocol WPAN ✓, IEEE 802.15.1, IEEE 802.15.4, IEEE 802.15.3 Serial ✓, RS-232, RS-422, RS-485, SSI, 1Wire Electrical connection Micro-Fit (20-pin) ✓ (2) Data transmission rate Protocol J1939, CANOpen Electrical connection Micro-Fit (20-pin) ✓, USB 2.0 USB Electrical connection Inputs/outputs I/O Optical indicators IEEE 802.15.4, IEEE 802.15.3 ✓, RS-242, RS-485, SSI, 1Wire Micro-Fit (20-pin) ✓ (2) USB 2.0 USB 2.0 A-Nopen USB 2.0 A-Male connector	WLAN	√
WPAN ✓, IEEE 802.15.1, IEEE 802.15.4, IEEE 802.15.3 Serial ✓, RS-232, RS-422, RS-485, SSI, 1Wire Micro-Fit (20-pin) ✓ (2) Data transmission rate Protocol Electrical connection Micro-Fit (20-pin) USB ✓, USB 2.0 USB 2.0 A-Male connector Inputs/outputs I/O 6 analog inputs (configurable, current and voltage), 8 digital inputs/outputs (configurable) 3, LED, status displays	Data transmission rate	(80 Mbit/s 100 Mbit/s), single band 2.4 GHz
Serial Electrical connection CAN bus Data transmission rate Protocol Electrical connection Micro-Fit (20-pin) ✓ (2) 1 Mbit/s, adjustable J1939, CANOpen Micro-Fit (20-pin) ✓, USB 2.0 USB 2.0 USB 2.0 USB 2.0 A-Male connector Inputs/outputs I/O Optical indicators J/O Status displays	Protocol	IEEE 802.11 b/g/n
Electrical connection Micro-Fit (20-pin) CAN bus Data transmission rate Protocol J1939, CANOpen Electrical connection Micro-Fit (20-pin) USB ✓, USB 2.0 Electrical connection USB 2.0 A-Male connector Inputs/outputs I/O 6 analog inputs (configurable, current and voltage), 8 digital inputs/outputs (configurable) Optical indicators 3, LED, status displays	WPAN	√ , IEEE 802.15.1, IEEE 802.15.4, IEEE 802.15.3
CAN bus Data transmission rate Protocol J1939, CANOpen Electrical connection Micro-Fit (20-pin) USB Flectrical connection USB 2.0 A-Male connector Inputs/outputs I/O 6 analog inputs (configurable, current and voltage), 8 digital inputs/outputs (configurable) Optical indicators 3, LED, status displays	Serial	√ , RS-232, RS-422, RS-485, SSI, 1Wire
Data transmission rate Protocol Protocol Electrical connection Wicro-Fit (20-pin) ✓, USB 2.0 Electrical connection USB Electrical connection Inputs/outputs I/O 6 analog inputs (configurable, current and voltage), 8 digital inputs/outputs (configurable) 3, LED, status displays	Electrical connection	Micro-Fit (20-pin)
Protocol Electrical connection Micro-Fit (20-pin) ✓, USB 2.0 Electrical connection USB 2.0 A-Male connector Inputs/outputs I/O 6 analog inputs (configurable, current and voltage), 8 digital inputs/outputs (configurable) Optical indicators 3, LED, status displays	CAN bus	√ (2)
USB Electrical connection USB 2.0 Electrical connection USB 2.0 A-Male connector Inputs/outputs I/O 6 analog inputs (configurable, current and voltage), 8 digital inputs/outputs (configurable) Optical indicators 3, LED, status displays	Data transmission rate	1 Mbit/s, adjustable
USB Electrical connection USB 2.0 A-Male connector Inputs/outputs I/O 6 analog inputs (configurable, current and voltage), 8 digital inputs/outputs (configurable) Optical indicators 3, LED, status displays	Protocol	J1939, CANOpen
USB 2.0 A-Male connector Inputs/outputs I/O 6 analog inputs (configurable, current and voltage), 8 digital inputs/outputs (configurable) Optical indicators 3, LED, status displays	Electrical connection	Micro-Fit (20-pin)
Inputs/outputs I/O 6 analog inputs (configurable, current and voltage), 8 digital inputs/outputs (configurable) Optical indicators 3, LED, status displays	USB	√ , USB 2.0
I/O 6 analog inputs (configurable, current and voltage), 8 digital inputs/outputs (configurable) Optical indicators 3, LED, status displays	Electrical connection	USB 2.0 A-Male connector
Optical indicators 3, LED, status displays	Inputs/outputs	
	1/0	6 analog inputs (configurable, current and voltage), 8 digital inputs/outputs (configurable)
Configuration interface Web-Interface	Optical indicators	3, LED, status displays
	Configuration interface	Web-Interface

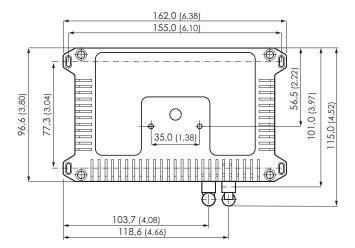
Ambient data

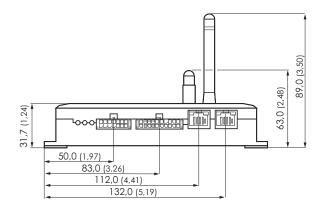
Ambient temperature, operation	-20 °C +70 °C
Ambient temperature, storage	-40 °C +85 °C
Shock load	IEC 60068-2-27
Electromagnetic compatibility (EMC)	EN 303446-1 EN 55032 EN 55024 EN 61000-3-2 EN 61000-3-3
Product safety	EN 60950-1

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Radio approval	EN 301511 V12.5.1 (2017)
General notes	
Description	The gateway networks sensors, machines and IIoT platforms for collecting and preprocessing local sensor and process data.
Items supplied	TDC-E200EU with mobile communication (EU 27+2, 500 MB flow of data) including connecting cables and operating instructions
Classifications	
eCl@ss 5.0	19179090
eCl@ss 5.1.4	19179090
eCl@ss 6.0	19179090
eCl@ss 6.2	19179090
eCl@ss 7.0	19179090
eCl@ss 8.0	19179090
eCl@ss 8.1	19179090
eCl@ss 9.0	19179090
eCl@ss 10.0	19179090
eCl@ss 11.0	19179090
eCl@ss 12.0	19179090
UNSPSC 16.0901	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."

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