

TDC-E210GC

Telematic Data Collector

EDGE COMPUTING DEVICES

SICK
Sensor Intelligence.

Ordering information

Type	part no.
TDC-E210GC	6070344

Included in delivery: GPS antenna (1), Spare power connection cable (1), LTE antenna (1), WLAN antenna (1)

Other models and accessories → www.sick.com/Telematic_Data_Collector



Detailed technical data

Features

Product category	Gateway and cloud solutions
Installed application	Programmable base device

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)

Performance

Sensor	Acceleration sensor Magnetometer Thermometers
Internal computer	1 GB, DD3, dual-core Cortex-A7 with Cortex-M4 co-processor
Internal memory	16 GB
Operating system	Linux4Microservices, based on Linux Yocto Project 3.1.4 (Dunfell)
Ecosystem	Docker
User interface	TDC-E Device Manager, User Manager, Interface Manager
Data protocol	MQTT REST API WebSocket
Data format	JSON
Connectivity	Mobile communication (4G) WLAN WPAN LAN
Mobile network	Global coverage LTE TDD: 1900/2300/2500/2600 LTE-FDD: 700/800/850/900/1700/1800/1900/2100/2600 UMTS: 850/900/1700/1900/2100
Region of use	Europe, Middle East, Africa, APAC without Japan

Interfaces

GPS		✓
	Remark	L1 C/A satellite-based extension system: WAAS, EGNOS, MSAS, GAGAN
	Protocol	GPS, GLONASS, BeiDo, Galileo
	Electrical connection	MCX
Modem		✓
	Remark	4G
	Data transmission rate	≤ 150 Mbit/s, full 4G performance cannot be guaranteed on operating temperature over 60 °C.
Ethernet		✓ (2)
	Data transmission rate	10 Mbit/s ... 1.000 Mbit/s
	Electrical connection	RJ45
WLAN		✓
	Data transmission rate	≤ 65 Mbit/s, single band 2.4 GHz
	Protocol	IEEE 802.11 b/g/n
WPAN		✓
	Remark	IEEE 802.15.1, IEEE 802.15.4, IEEE 802.15.3
Serial		✓
	Remark	RS-232, RS-422, RS-485, SSI, 1Wire
	Electrical connection	Micro-Fit (20-pin)
CAN bus		✓ (2)
	Data transmission rate	1 Mbit/s, adjustable
	Protocol	J1939, CANOpen
	Electrical connection	Micro-Fit (20-pin)
USB		✓
	Remark	USB 2.0
	Electrical connection	USB 2.0 A-Male connector
Optical indicators		✓ (3)
	Function	Status displays
Inputs/outputs	I/O	6 analog inputs (configurable, current and voltage), 6 digital inputs/outputs (configurable), 2 additional digital inputs, 2 additional digital outputs
		1)
Configuration interface		Web-Interface REST API

¹⁾ Analog measurement of voltage (0 - 36 V) with an accuracy of $\pm(0.2\%+30 \text{ mV})$, current (0 - 32 mA), with an accuracy of $\pm(1\%+0.1 \text{ mA})$, input resistance 27.5 k Ω typical for voltage mode, 100 Ω typical for current mode.

Ambient data

Electromagnetic compatibility (EMC)	EN 303446-1 EN 55032 EN 55024 EN 61000-3-2 EN 61000-3-3
Shock and vibration resistance	IEC 60068-2-27
Electrical safety	EN 62311:2008

Ambient temperature	
Ambient temperature, operation	–20 °C ... +70 °C
Ambient temperature, storage	–40 °C ... +85 °C

General notes

Items supplied	TDC-E210GC with mobile communication (without data flow) including connecting cables and operating instructions
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Classifications

ECLASS 6.0	19179090
ECLASS 6.2	19179090
ECLASS 7.0	19179090
ECLASS 8.0	19179090
ECLASS 8.1	19179090
ECLASS 9.0	19179090
ECLASS 10.0	19179090
ECLASS 11.0	19179090
ECLASS 12.0	19179090
UNSPSC 16.0901	43222605

Certificates

EU declaration of conformity	✓
UK declaration of conformity	✓
ACMA declaration of conformity	✓
Radio Approval certificate	✓
Radio Approval certificate Korea	✓

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