Data sheet

SSG-E210AC

Telematic Data Collector

EDGE COMPUTING DEVICES

SICK
Sensor Intelligence.

Ordering information

Type	part no.
SSG-E210AC	1127750

Included in delivery: TDC-E210AC (1)

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

Detailed technical data

Features

Installed application	Pre-installed Monitoring Connect and Remote Service Connect
Version	Minimum Viable Product
Static data	Device name Serial number System version (available after successful subscription to the Monitoring Box)
Service data	Overview CPU utilization Available working memory Internal temperature (available after successful subscription to the Monitoring Box)
Process data	Modem connection duration GSM signal strength (available after successful subscription to the Monitoring Box)
Number of Monitoring Boxes that can be connected per Smart Service Gateway	5 to 10, depending on data supplier

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)
Enclosure rating	IP20 (according to DIN EN 60529)

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
Data protocol	MQTT REST API OPC UA WebSocket

Connectivity	Mobile communication (4G) WLAN WPAN LAN
Mobile network	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	North America, Latin American

Interfaces

GPS	✓
Remark	L1 C/A satellite-based extension system: WAAS, EGNOS, MSAS, GAGAN
Data transmission rate	≤ 150 Mbit/s, full 4G performance cannot be guaranteed on operating temperature over 60 °C.
Protocol	GPS, GLONASS, BeiDo, Galileo
Electrical connection	MCX
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)

1) Analog measurement of voltage (0 - 36 V) with an accuracy of ±(0.2%+30 mV), current (0 - 32 mA), with an accuracy of ±(1%+0.1 mA), input resistance 27.5 kΩ typical for voltage mode, 100 Ω typical for current mode.

Ambient data

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

General notes

Items supplied	TDC-E210AC with Remote Service Connect and Monitoring Connect
Contractual basis	AVB SICK software (+Link)
Supervision	Maintenance and safety updates are included

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

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

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