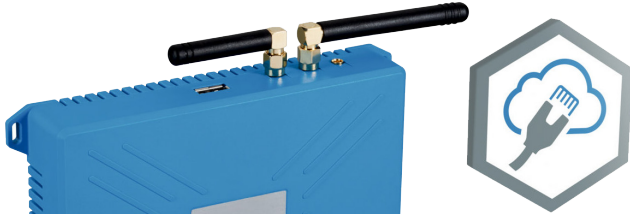


BRIEF OPERATING INSTRUCTIONS

en

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Smart Service Gateway (SSG)



1. Intended use

The intended use of the SSG is the communication of connected devices with the Monitoring Box. SSG is a gateway unit for Endress+Hauser devices and is used to collect and transfer data from various devices to a cloud. It is used to collect the data from devices on various interfaces like Ethernet, CAN, RS-485, RS-422, RS-232, 1-Wire, digital inputs and outputs and analog inputs. Operate the SSG and accessories only as intended. In the case of any other usage or in the event of any modifications to the device or to the Endress+Hauser software, any warranty claims against Endress+Hauser shall be null and void.

2. About this document

This document describes the Smart Service Gateway (SSG) for use with Endress+Hauser devices. It refers to the accompanying Operating Instructions of SSG where further information are available at www.endress.com/icomio. In this document, the TDC-E is described as a component of the SSG.

Definition of terms and components

SSG: Smart Service Gateway (TDC-E with Monitoring Connect)

TDC-E: Telematic Data Collector

Monitoring Connect: Software package to facilitate connection between devices, TDC-E and Monitoring Box

Monitoring Box: Digital services to monitor, analyze and predict the service data and process data of connected devices.

3. For Your Safety

It is essential that SSG is transported, stored, installed, and used in accordance with its intended use to ensure error-free, safe operation. SSG may only be installed, operated, and maintained by appropriately trained, authorized specialist personnel.

! Notice:

- ▶ For relevant safety information refer to the operating instructions available at www.endress.com/icomio.

4. Installation

⚠ Warning: Dangerous voltage

Risk of accidents through electric shock.

- ▶ Ensure the power supply can be switched off at an easily accessible and power isolating switch and/or circuit breaker.
- ▶ When working at electrical installations, it is essential to comply with habitual safety requirements.
- ▶ Only have the work carried out by skilled electricians familiar with potential risks.
- ▶ Disconnect the power connections or power supply line before working on the device.
- ▶ Only allow personnel carrying out the work to activate power supply under consideration of valid safety regulations.
- ▶ When device damage is visible: switch the power supply off at the external point.
- ▶ Before any action step ensure that the unit is turned off.

Scope of delivery

These components and accessories are supplied with SSG:

- Connection cables:
- WireSet – SSG PWR power cable
- LTE antenna
- GPS antenna
- WLAN+WPAN antenna
- User Manual / Quick Start document

4.1 Step1: mounting the SSG

The device can be mounted on any sufficiently stable support.

- ▶ Attach the device using the mounting holes on the housing.

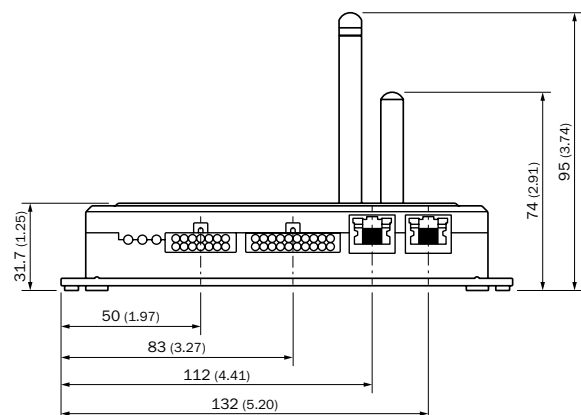
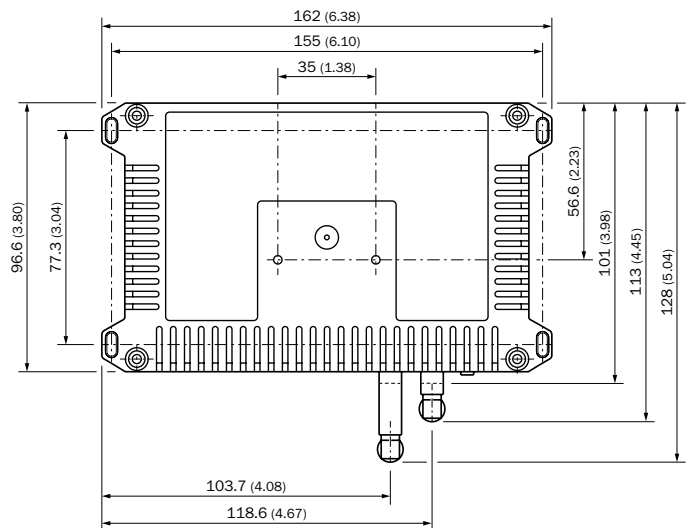


Fig. 1: TDC-E dimensions and mounting holes (dimensions in millimeter (inch)).

4.2 Step 2: connecting devices to the SSG



- | | |
|------------------------------|------------------------------------|
| ①. LED indicator | ⑥. MCX connector-GPS antenna |
| ②. SSG PWR+AIN/DIO connector | ⑦. SMA connector-LTE antenna |
| ③. SSG COMM connector | ⑧. SMA connector-WLAN+WPAN antenna |
| ④. RJ45 GbE port0 (Eth0) | ⑨. USB 2.0 connector |
| ⑤. RJ45 GbE port1 (Eth1) | |

Fig. 2: SSG overview and interfaces

Direct connection

- ▶ Connect the device communication interface to the appropriate connection terminal on the SSG device.
- ▶ Use the cables provided with the device or additional extension cables if needed.

4.3 Step 3: Installing the power supply

! Notice:

- ▶ If installing in a vehicle or on battery, check operating instructions for specific installation requirements.
- ▶ To establish the power supply for SSG, use a suitable cable (WireSet-SSG PWR or WireSet-SSG PWR+AIN/DIO) to connect electrical supply to the device's PWR connector (see Fig 2).

SSG does not have its own power switch.

- ▶ To switch off the connected device, remove the power supply cable from the PWR connector or disconnect the power supply.

SSG features three LEDs that show the current operating state:

State	Green LED	Yellow LED	Red LED
Device pre-booting	ON	OFF	OFF
Device booting	Fast flashing	OFF	OFF
Device ready	Heart beat	OFF	OFF
Restoring backup	Fast flashing	Fast flashing	OFF
Device reset (factory, data or system reset)	Fast flashing	Fast flashing	OFF
Software update	Fast flashing	Fast flashing	OFF
Device in error state	OFF	ON	ON
User defined at 'Interfaces' web page	-	ON/OFF/Heart beat	ON/OFF/Heart beat

5. Commissioning

1. Request a commissioning procedure at monitoring-box@endress-ehs.com if you haven't received information about the process already. Add the desired customer name for the asset tree to your request. You will receive a link to a commissioning form to enter device and network information. A configuration for the installation will be created according to the information you provide (this can happen in parallel to the rest of the steps).
2. a) If internet connectivity should be provided via mobile network, disable the PIN lock of your SIM card, and install it. For further information, refer to the chapter "Replacing/Installing the SIM card".
b) Installation (see chapter "Step 1: mounting the SSG").
3. a) Connect the communication interfaces of the devices to the corresponding interfaces on the SSG. For this purpose, use the cables supplied with the devices or additional extension cables if required (see Fig. 2 and "Overview of ports/connectors pin-out and design" of chapter 8 technical data).
b) If internet connectivity should be provided via LAN, connect the necessary cables.
4. To establish the power supply for the SSG, use the supplied cable to connect the electrical supply to the PWR connector of

the device, see Fig. 2. The SSG does not have its own power switch. To switch off the device, disconnect the power supply cable from the PWR socket or disconnect the power supply.

5. To configure a device connectivity, connect your PC to the Eth0 port of the SSG via an Ethernet cable. Use a browser (recommendation: Google Chrome) to access the Device Manager at <http://192.168.0.100> (subnet mask 255.255.255.0).

Username: tdce

Password: tdceCustomer315!

6. If internet connectivity should be provided via LAN or Wi-Fi, the following connections need to be allowed through the firewall:

Target	Port	Protocol	Direction	Service
monitoringbox.endress.com	443	TCP	outbound	Data transfer, software download
artifactory.monitoringbox.endress.com (80.72.143.67)				
manage.gateway.monitoringbox.endress.com (80.72.143.68)	[gateway_port]	TCP	outbound	Remote service
[configurable]	53	TCP/UDP	outbound	DNS (name resolution)
pool.ntp.org [configurable]	123	TCP/UDP	outbound	NTP (time synchronization)
[configurable]		*	inbound outbound	Device connection

7. Open the Commissioning UI at <http://192.168.0.100:5000>
 - a) If the devices are connected via Ethernet or Wi-Fi, you can use the PING tool to verify that the connection is working.
 - b) Verify that there are no connectivity issues to the required internet services.
8. a) To use the services, you need an Endress+Hauser ID.
 - ▶ To create one, visit www.endress.com.
 - ▶ Enter your login data if you already have an Endress+Hauser ID.
 - ▶ For first-time creation of a Endress+Hauser ID, click on "Register".
 b) Follow the instructions on the website and accept the terms of use. Please make a note of your Endress+Hauser ID.
9. When the gateway connectivity is established and the commissioning form completed (see step 1.) contact us for further instructions.

6. Network configuration

6.1 Necessary equipment and tools

Depending on the type of connection used, different equipment or tools may be required to help with the setup.

- Notebook
- Ethernet cable
- Switch
- Wi-Fi hotspot
- SIM card
- Screwdriver (Philips head 3)

6.2 SSG web interfaces

Device Manager

<http://192.168.0.100> (left LAN port, default configuration)

Username: tdce

Password: tdceCustomer315!

Commissioning UI

<http://192.168.0.100:5000> (left LAN port, default configuration)

All web interfaces are accessible through any configured IP address.

6.3 LAN connection

Steps for configuration with two LAN interfaces

1. Connect a LAN cable to Eth0 (192.168.0.100) of the SSG and your notebook.
2. Connect a LAN cable to Eth1 (DHCP) of the SSG for the internet gateway.
3. Eth0 has a fixed IP address (192.168.0.100) by default and Eth1 is set to DHCP.
4. Make the necessary settings on your notebook to connect to the SSG. For Eth0: assign your notebook's LAN interface an IP in the network 192.168.0.0 for example 192.168.0.200
5. Set the subnet mask to 255.255.255.0
6. Go to the Device Manager (default: <http://192.168.0.100>) and log in with the credentials provided.
7. Set up a way to connect with the device when both LAN ports are in use. This depends on the specific setup. For example see "Common Problems" below.
8. Under "Network – Segments" make the required settings for Eth0 and Eth1.
9. Under "Network – DNS" set a DNS server if your gateway doesn't provide DNS.
10. Under "System – Time" set an NTP server (e.g.: pool.ntp.org).
11. Remove the LAN cable between the SSG and your notebook.
12. Connect a LAN cable to Eth0 of the SSG for device network.
13. Use the connection method you set up in step 6 to connect to Monitoring Box Commissioning UI (default: <http://192.168.0.100:5000>).
14. Check if all required services can be reached properly.
15. Ensure that the device information has been submitted via the web form.
16. Contact your local Endress+Hauser representative for further instructions or click "Install Monitoring Box" if instructed.

Common Problems

How do I connect to the SSG web interfaces for configuration when both LAN ports are in use?

- Depending on the setup, you may be able to access the web interfaces through the local network.
- You can use a switch to connect to a network and your notebook at the same time.
- You can configure a Wi-Fi hotspot on the SSG and your notebook and connect both devices through that.
- Connection to the devices or internet services doesn't work. If there's a firewall, check that the required connections are allowed (see chapter "Commissioning", table at step 6).

Example setup

LAN0: Sensor

LAN1: Internet gateway

6.4 Wi-Fi connection

Steps for configuration with Wi-Fi

1. Install the Wi-Fi antenna (see chapter "Device overview and interfaces" and "Overview of ports/connectors pin-out and design").
2. Connect a LAN cable to Eth0 (192.168.0.100) of the SSG and your notebook.
3. Go to the Device Manager (default: <http://192.168.0.100>) and log in with the credentials provided.
4. Under "Network – WLAN" enable WLAN.
5. Under "Network – WLAN" enable "Periodic scan".
6. Under "Network – WLAN" select your network from the list, enable "auto-reconnect" and provide the passphrase to log in.

7. Under "Network – DNS" set a DNS server if your gateway doesn't provide DNS.
8. Under "System – Time" set an NTP server (e.g.: pool.ntp.org).
9. Under "Network – Segments" make note of the assigned IP address for the interface wlan0.
10. Remove the LAN cable between the SSG and your notebook.
11. The SSG should now be accessible through the Wi-Fi at the assigned IP address.
12. Open the Monitoring Box Commissioning UI (default: <http://192.168.0.100:5000>).
13. Check if all required services are reachable.
14. Ensure that the device information has been submitted via the web form.
15. Contact your local Endress+Hauser representative for further instructions or click "Install Monitoring Box" if instructed.

Example setup

WLAN0: Sensor and internet gateway

6.5 Modem connection

Steps for configuration with mobile network

1. Remove the PIN lock from the SIM card to be used.
2. Insert the SIM card (see chapter "Replacing/installing the SIM card").
3. Install the mobile antenna (see chapter "Device overview and interfaces").
4. Connect a LAN cable to Eth0 (192.168.0.100) of the SSG and your notebook.
5. Go to the Device Manager (default: <http://192.168.0.100>) and log in with the credentials provided.
6. Under "Network – Modem" enable the modem.
7. Under "Network – Modem" enter the provider details for the SIM card and click "Connect".
8. Use one of the other connection types to connect devices to the SSG.
9. Open the Monitoring Box Commissioning UI (default: <http://192.168.0.100:5000>).
10. Check if all required services can be executed.
11. Ensure that the device information has been submitted via the web form.
12. Contact your local Endress+Hauser representative for further instructions or click "Install Monitoring Box" if instructed.

Common Problems

Connection to the mobile network doesn't work.

- Make sure the SIM card PIN lock is disabled.
- Check that the SIM card is installed correctly.
- Check "Network – Modem" if you entered the correct provider details.

Example setup

LAN0: Sensor

PPP0: Internet gateway

7. Maintenance

SSG housing does not contain any spare or wear parts.

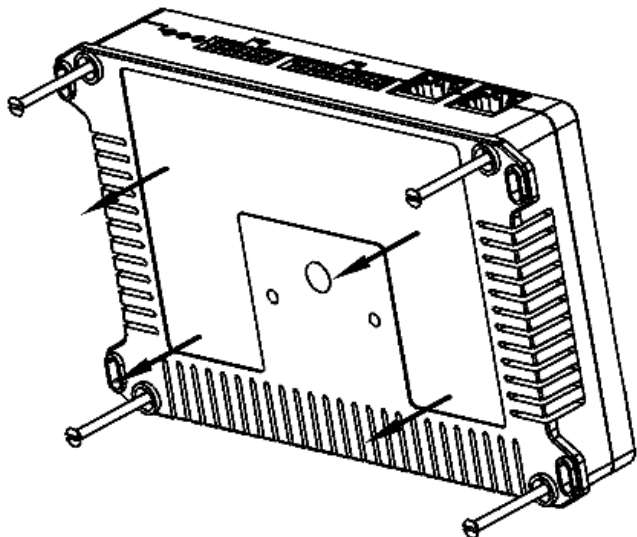
- ▶ Clean the housing with a soft, dry, or slightly moistened cloth.
- ▶ Do not use any solvents or high-pressure cleaners.

7.1 Replacing/installing the SIM card

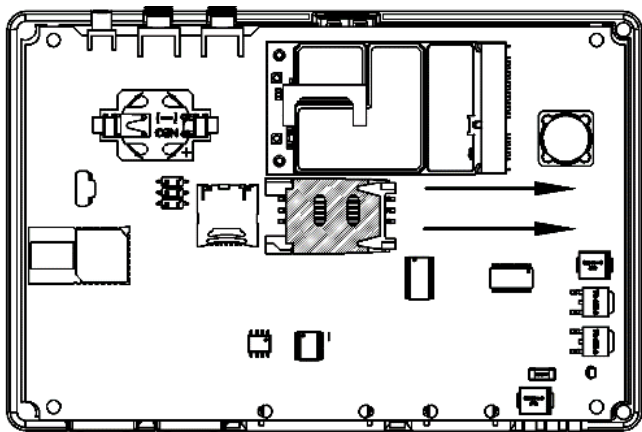
SSG device comes without installed SIM card. If there is a need to install (or replace) the SIM card, follow the lower instructions.

- ⚠ Caution:**
Risk of electric shock when working on electrical parts while the unit is switched on.
- ▶ Always disconnect the device from power supply before replacing/installing the SIM card.
 - ▶ In all cases, take measures to protect against electrostatic discharge.

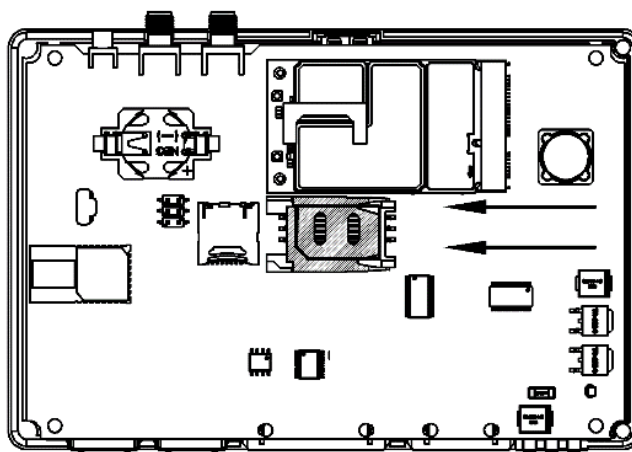
- ▶ Proceed as follows to replace/install the SIM card:
 1. Make sure that the device is switched off.
 2. Unscrew and remove the plastic cover on the bottom side of the device.



3. Push the plastic cover of the SIM card holder to the side. Orientation is marked on holder with arrow.



4. Lift the SIM plastic holder and replace/install the SIM card facing chip side down.



5. Return the SIM plastic cover and lock it.
6. Return the enclosure plastic cover to the bottom-side of the device and secure it with screws.
7. Set up APN in SSG Device Manager (refer to TDC-E operating instructions).

8. Technical Data

General specifications	
Input voltage	9 V ... 36 V DC
Max current consumption	2 A
Average current consumption	100 mA @ 24 V (without external load)
Protection	Over-current, over-voltage and ESD protection (4 kV IEC 61000-4-2)
Fuse	4 A (internal)
Operating temperature	-20 °C to +70 °C
Storage temperature	-40 °C to +85 °C
Case material	PA6
Flammability class	UL 94 V-0
Dimensions without antennas (W x H x L)	162.0 x 31.7 x 101.0 mm (6.38 x 1.25 x 3.98 in)
Protection type	IP20 according to DIN EN 60529
Weight without accessories	0.23 kg
Mobile network ¹⁾	LTE-FDD: 700/800/850/900/1700/1800/1900/2100/2600 LTE-TDD: 1900/2300/2500/2600MHz Data transfer speed up to 150 Mbps (DL)/50Mbps (UL) for LTE FDD
SIM ²⁾	User replaceable, standard SIM card size (2FF)
Antenna	No cable allowed between antenna and connector
SMS	Text and PDU mode
GPS Receiver type	72-channel u-blox M8 GPS, GLONASS, BeiDou, Galileo Satellite-based augmentation systems L1C/A: WAAS, EGNOS, MSAS, GAGAN
Sensitivity	-148dBm (acquisition) -164dBm (tracking)
Time to first fix	Hot start: 1 s Warm start: 3 s Cold start: 32 s
Max update rate	10 Hz
Antenna	Internal and external MCX option Antenna cable is limited to maximum permissible length of <3m
WPAN	Dual-Mode: IEEE 802.15.1
WLAN	IEEE 802.11 b/g/n

¹⁾ Full 4G performance cannot be guaranteed on operating temperature over 60 °C
²⁾ Not available for end user
³⁾ SSG device delivered without SIM card

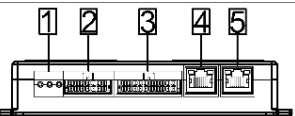
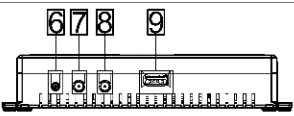
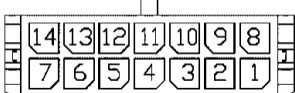
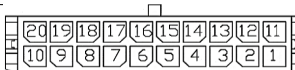
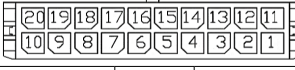
Interfaces	
SSG	Description
6 x AIN (Analog input) ¹⁾	<ul style="list-style-type: none"> Analog measurement of voltage (0 ... 36 V) with accuracy of ±0.2% (+30mV) or current (0 ... 32 mA), with accuracy of ±1% (+0.1mA) Virtual digital input capability (fully configurable high and low voltage levels) Input resistance 27.5 kΩ typical for voltage mode, 100 Ω typical for current mode
6 x DIO (Digital input/output) ¹⁾	<ul style="list-style-type: none"> Digital input (high level > 3 V) or digital output (500 mA current capability, 1000 mA is maximal load on all outputs combined, high-side switch outputting voltage from device power input), software configurable, over-current protected Impulse/frequency measurem. (high level > 3V) Input resistance: 22 kΩ typ. for digital input
2x DOUT (Additional digital output)	<ul style="list-style-type: none"> Additional digital output on LP_A/B pins Max current of 300 mA
2 x DIN (Additional digital input)	<ul style="list-style-type: none"> Additional digital input on CQ_A/B pins
2 x Ethernet	<ul style="list-style-type: none"> 2 x RJ45, 10/100/1000 Mbit/s
RS-485/RS-422 ¹⁾	<ul style="list-style-type: none"> Fully compliant with ANSI TIA/EIA 485-A ESD protection (± 6kV IEC 1000-4-2) Selectable baud rate up to 576 kbps
SSI ¹⁾	<ul style="list-style-type: none"> SSI master interface Available if RS-485/RS-422 disabled in software1) Minimum clock rate is restricted to 300 kHz while maximum is 1 MHz
RS-232	<ul style="list-style-type: none"> True RS-232 (EIA/TIA-232/V.28) level Receive and Transmit data lines ESD protection ±8 kV (contact discharge) according to IEC 61000-4-2 Selectable baud rate up to 250 kbps Cable is limited to maximum permissible length of <3m.
2 x CAN bus	<ul style="list-style-type: none"> ISO 11898-2 and ISO 11898-5 compliant ESD protection ±8 kV (contact discharge) according to IEC 61000-4-2 Selectable baud rate up to 1 Mbps
1-Wire	<ul style="list-style-type: none"> 1-Wire interface 28 V over-voltage protection ESD protection ±4 kV (contact discharge) according to IEC 61000-4-2 Cable is limited to maximum permissible length of <3m.
USB	<ul style="list-style-type: none"> USB port is used for engineering debug usage only. ESD protection ±8 kV (contact discharge) according to IEC 61000-4-2

¹⁾ Software configurable

Embedded sensors¹⁾

TDC -E	Description
Accelerometer	<ul style="list-style-type: none"> 3 axis Full scale range: ±2 g/±4 g/±8 g Resolution: up to 0.244 mg Report rate: 1.56 Hz to 400 Hz
Magnetometer	<ul style="list-style-type: none"> 3 axis Full scale range: ±12000 mGa Resolution: up to 1 mGa Refresh rate: up to 100 Hz
Thermometer	<ul style="list-style-type: none"> Resolution: ±0.5 °C Accuracy: ±0.5 °C from -20 °C to +100 °C

¹⁾ Only for diagnostic purpose

Device overview and interfaces			
SSG-front side		SSG-back side	
			
1.LED indicator		6.MCX connector-GPS antenna	
2.SSG PWR+AIN/DIO connector (14 pin connector)		(only available in SSG200XX model)	
3.SSG COMM connector (20 pin connector)		7.SMA connector-LTE antenna (not available in models without LTE)	
4.RJ45 GbE port0 (Eth0)		8.SMA connector-WLAN+WPAN antenna	
5.RJ45 GbE port1 (Eth1)		9.USB 2.0 connector	
Figure 2: SSG device overview and interfaces			
Port		Default IP address	
GbE port0 (Eth0)		192.168.0.100	
GbE port1 (Eth1)		by DHCP	
Overview of ports/connectors pin-out and design			
All ports/connectors are described from side of device.			
SSG PWR+AIN/DIO connector terminals:			
			
Group	Pin	Pin name	Description
PWR	14	VIN	Power supply for device. Power supply range 9V ... 36V DC
	7	GND	Ground pin for power supply
DIO	13	DIO_A	Digital input/output – Channel A
	6	DIO_B	Digital input/output – Channel B
	12	DIO_C	Digital input/output – Channel C
	5	DIO_D	Digital input/output – Channel D
	11	DIO_E	Digital input/output – Channel E
	4	DIO_F	Digital input/output – Channel F
AIN	10	AIN_A	Analog input – Channel A
	3	AIN_B	Analog input – Channel B
	9	AIN_C	Analog input – Channel C
	2	AIN_D	Analog input – Channel D
	8	AIN_E	Analog input – Channel E
	1	AIN_F	Analog input – Channel F
SSG COMM connector terminals:			
			
Group	Pin	Pin name	Description
Additional DIO	20	LP_A	LP_A pin is used as digital output
	10	CQ_A	CQ_A pin is digital input
			
Group	Pin	Pin name	Description
Additional DIO	19	LP_B	LP_B pin is used as digital output
	9	CQ_B	CQ_B pin is digital input
GND	18	GND	GND pin
	8	GND	GND pin
+5V DO	17	+5 V	+5 V digital output
1-WIRE	7	1 W	Data pin for 1-WIRE
RS-232	16	TX	Data transmit output pin for RS-232 protocol
	6	RX	Data receive input pin for RS-232 protocol
	15	CTS	CTS-Clear to send output pin for RS-232 protocol
	5	RTS	RTS-Request to send input pin for RS-232 protocol
RS-485/RS-422/SSI ¹⁾	14	Y/CLK+	Data pin for RS-485/RS-422/SSI
	4	Z/CLK-	Data pin for RS-485/RS-422/SSI
	13	A/DATA+	Data pin for RS-485/RS-422/SSI
	3	B/DATA-	Data pin for RS-485/RS-422/SSI
CAN A	12	CANH_A	CAN high data pin – Channel A
	2	CANL_A	CAN low data pin – Channel A
CAN B	11	CANH_B	CAN high data pin – Channel B
	1	CANL_B	CAN low data pin – Channel B

¹⁾ Software configurable/RS-422 available in API

RS-485/RS-422 Pin-out

Half duplex mode: Transceiver operates in transmit and receive modes using Y and Z pins.

Full-duplex mode: Transceiver operates in receive mode on A and B pins and transmit mode on Y and Z pins.

9. Annex

9.1 Regulatory Compliance Information

These products may only be operated in countries for which approval has been granted.

No.	Country	Type	Part no.
1	European Union	TDC-E210GC SSG-E210GC	6070344 1124771
2	Singapore	TDC-E210GC SSG-E210GC	6070344 1124771
3	Australia	TDC-E210GC	6070344
4	United States	TDC-E210AC SSG-E210AC	6079357 1127750
5	Canada	TDC-E210AC SSG-E210AC	6079357 1127750
6	Taiwan	TDC-E210AC SSG-E210AC	6079357 1127750

Please observe the country-specific information for operation below.

1 European Union



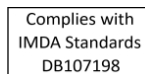
Simplified EU declaration of conformity

Hereby, Endress+Hauser SICK GmbH +Co.KG declares that the radio equipment type SSG210GC complies with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address:

<https://endress.com/ICOMO>

2 Singapore



RF Exposure Information

The device must have a minimum distance of 20 cm between the source of radiation and your body in order to limit the exposure of the human body to electromagnetic radiation.

3 Australia



ABN 81-006-054-468

The product complies with the requirements of the relevant ACMA Standards made under the Radiocommunications Act 1992 and the Telecommunications Act 1997.

These Standards are referenced in notices made under section 182 of the Radiocommunications Act and 407 of the Telecommunications Act.

4 United States

FCC ID: 2AHDRTDCE210

NOTICE

This device complies with Part 15. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

NOTICE

Changes or modifications made to this equipment not expressly approved by Endress+Hauser may void the FCC authorization to operate this equipment.

RF Exposure Information

The device has been evaluated to meet general RF exposure requirement. This equipment should be installed and operated with minimum distance 20 cm between the radiator and your body.

5 Canada

Canada compliance statement:

This device complies with Innovation, Science and Economic Development Canada's license-exempt RSS standard(s).

Operation is subject to the condition that this device must not cause harmful interference and must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence.

L'exploitation est autorisée aux deux conditions suivantes:

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

RF Exposure Information

The device complies with ISED radiation exposure limits for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator and your body.

Déclaration d'exposition aux radiations

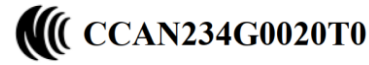
Cet équipement est conforme aux limites d'exposition aux rayonnements ISED établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec une distance minimale de 20 cm entre la source de rayonnement et votre corps.

CAN ICES-003B / NMB-003B

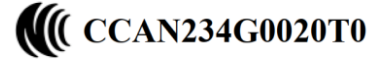
6 Taiwan

減少電磁波影響，請妥適使用

SSG210AC



SSG-E210AC



Endress+Hauser Telematic Data Collector TDC-E210/SSG-E210 Smart Service Gateway unit for connecting sensors and wireless data transfer.

「取得審驗證明之低功率射頻器材，非經核准，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。低功率射頻器材之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。前述合法通信，指依電信管理法規定作業之無線電通信。低功率射頻器材須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。」

For 終端設備: 減少電磁波影響，請妥適使用 通訊介面規格:
LTE FDD 700MHz(B28), 900MHz(B8), 1800MHz(B3),
2100MHz(B1), 2600MHz(B7)

裝置的輻射源與您的身體之間必須保持 20 cm 的最小距離，以約束電磁輻射對人體造成的暴露