

SHORT INSTRUCTION

Starting up TCG data modules with **MACHINES.**cloud









Connect the antennas to the SMA plugs on the TCG-4e.

2 Insert SIM card

into a TC3G

- 1. Press the yellow button beside the card tray
- 2. Pull out the SIM card tray
- Place the SIM card into the tray (for micro SIM cards or smaller cards a corresponding adapter is required)
- 4. Slide the SIM card tray back in carefully



into a TCG-4

- 1. Remove the metal clip with a flat screwdriver
- 2. Remove the SIM card slot cover
- Press the yellow button next to the SIM card holder and pull out the SIM card tray



- Place the SIM card into the tray (for micro SIM cards or smaller cards a corresponding adapter is required)
- 5. Slide the SIM card tray back in carefully
- 6. Reassemble the SIM card slot cover and metal clip

3 Starting up TCG

- 1. Supply the TCG with power:
 - a. Set the power supply to 12 V
 - b. Connect the TCG to the breakout cables
 - c. Connect the breakout cables to the cable harness adapter
 - d. Connect the power supply unit to the cable harness adapter
 - e. ATTENTION: Select the correct power supply output connectors
 - f. ATTENTION: Check the polarity of the power supply output connectors
- 2. Switch on the cable harness adapter
- 3. Wait for the status LED of the TCG

ATTENTION: For (optimal) GPS and GSM reception, the TCG must be positioned outside buildings



4 Status detection by LED light

Yellow	Ready for use ► no Internet access; GPS not active or no GPS reception	TCG has booted and none of the other states are active
Blue	No Internet access; GPS active	After booting the
Pink	Internet access available; GPS not active or no GPS reception	TCG, it may take a few minutes for a GPS signal to be received or for Internet access
Green	Internet access available; GPS active	to be established
Flashing	Data traffic via CAN	The flashing can occur with all colors
Red flashing	Error signal (see operating instructions)	A restart of the TCG is recommended

5 Establish a connection with MACHINES.insight

- 1. Connect your smartphone, tablet or PC to the TCG Wi-Fi network
- Example network names: TC1-"serial number", TC3G-"serial number" or TCG4-"serial number"
- 3. Password of the loan variant: see label on the TCG
- Password of the standard variant: TC1: "darth_vader", TC3G: "darth_vader" or TCG-4: "digitalization!"
- 5. Open address "192.168.201.1" in your browser
- 6. Click on "Login" in the left menu bar
- 7. Login data: ► Username: admin
 - ▶ Password: admin
- 8. From machines.insight version 1.0.0: After first login, set a new password with 16 characters minimum, one lowercase letter, one uppercase letter and one number

6 Configure MACHINES.insight

TC3G

- 1. Select "System" in the left menu bar
- Switch to "Wi-Fi" within "Network Configuration"
- The right field "Access Point" must be activated
- 4. Change the password for Wi-Fi access
- 5. Click on "Save"
- 6. Switch to "machines.cloud" within the "Network Configuration"
- Switch the "Activate connector" to "ON"
- 8. Click on "Save"
- 9. Switch to "GSM" within "Network Configuration"
- Does the SIM card already have a PIN? ► Set the PIN switch in the GSM window to "Yes" and enter the PIN
- 11. Set "Status" to "ON"
- 12. Click on "Save" and restart the TCG (switch off/on the cable harness adapter)

Attention: With M2M SIM cards further configurations are necessary, see ► 7

Ethernet	WI-FI	GSM	ynetworkd	machines clour
Access Point				ENABLE
		192 168 201		
	890	1036 10290	1251004	
	hansent	deth_rater		
		# HEP 0.0	1998	
Ethernet	when	GSM	uration ynetworkd	machines.cloud
Ethernet Activa	te co	GSM GSM nnecto	uration ynetworkd	machines.cloud
Ethernet	rk Co with the co	GSM GSM nnecto	ynetworkd	machines.cloud
Networ	rk Co men ite co D on k Co	onfigu	ynetworkd or ration	machines.cloud
Networ Ethernet Activa OFF	rk Co wi-Pi tte co D oN k Co wi-Pi	onfigu GSM Innecto Infigu	ynetworkd or ration ynetworkd	machines.cloud machines.cloud

TCG-4

- 1. Select "System" in the left menu bar
- Switch to "Wi-Fi" within "Network Configuration"
- The right field "Access Point" must be activated
- 4. For security reasons, change the Wi-Fi password
- 5. Click on "Save changes on device!"
- Switch to "GSM" within "Network Configuration"
- 7. Set "Status" to "ON"
- Does the SIM card have a PIN? Set the PIN switch in the GSM window to "ON" and enter a PIN. ATTENTION: With M2M SIM cards further configurations are necessary, see ► 17
- 9. Click on "Save changes on device!"
- Switch to "ynetworkd" within "Network Configuration"
- "Status" has to be "ON" and "GSM" must be "enable"
- 12. Click on "Save changes on device!"
- Switch to "machines.cloud" within "Network Configuration"
- 14. "Status" has to be "ON"
- Click on "Save changes on device!"
- Restart the TCG (Click on "Restart device!" or switch off/on the switch on the cable harness adapter)

Network Configuration					
Ethernet	WIFi	GSM	ynetworkd	mac	nines cloud
Statu	IS			ON	OFF

Netwo	ork C	onfig	uration	
Ethernet	WIFi	GSM	ynetworkd	machines cloud



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Network Configuration

GSM

Ethernet Wi-Fi

Network Configuration

Status

Configure a M2M SIM card (only necessary for M2M SIM cards)

- 1. Login as "admin" in MACHINES.insight (see ► 5)
- 2. Navigate to "System" ► "Network Configuration" ► "GSM"
- 3. Select the "Custom Configuration" field on the right
- 4. Enter M2M parameters (source: SIM card provider)
- Click on "Save" or "Save changes on device!" and restart the TCG (Click on "Restart device!" or switch off/on the switch on the cable harness adapter)

Status					
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SIM Configuration		DETECTED	Custom Configuration		ENABLED
479			AP6	1	
Carrier			Carter	T-bitobar internet	
100			MOD	252	
894C			MNC	01	
104			User	nge	
		Pass		525	
IMEI			PIN		
			NO CYES		

Status				CN 077 👫
SiM Configuration	NOT DETECTED	Custom Configuration		ENABLEC
179		APN		
Carrier .		Cartier	T htuble internet	
804		MCC	282	
8942		MNC	01	
tion .		User	ndm.	
Pare		Pen	40	
6500				
(ME)		PIN	1234	OK 077

8 Registration in MACHINES.cloud and first steps

- 1. Open the e-mail from noreply@machines.cloud with the link to the cloud (recommended browser: Google Chrome)
- 2. Click on the link and change your password on the web page
- Log in with the new access data
 ▶ User name: tenantname_admin
- 4. Top right click on "<<"

- Q O III sysadmin (1)
- In the area of "Help & Support" click on "T.O.N.I."² and then on "Show Tours"
- 6. The following tours are available:
 - a. Register Device
 - b. m.a Welcome Page
 - c. Create / Use VPN
 - d. Track Evaluation
 - e. Data Explorer
 - f. Codesys Gateway





Further Information

Video Tutorials:

German: youtu.be/UT14E_I39sE

English: youtu.be/dJcDs7t28yw

All Manuals and Tutorials here:

stw-digitalization.com
Passwort: connectivity

T.O.N.I. Tours:

- Available in MACHINES.cloud and MACHINES.access
- ▶ Top right click on "<<"

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