



Making mobile machines perform
Efficient | Safe | Green 



QUICK START GUIDE FOR STARTING UP
TCG with machines.cloud

① Check the scope of delivery*1



TCGi



Breakout cables



Cable harness adapter Power supply

Optional:



TCGe



2G/3G/4G



Wi-Fi/Bluetooth



GPS/GLONASS

Connect the antennas to the SMA plugs.

② Configuring the SIM card

1. Press the yellow button beside the card tray
2. Remove the SIM card holder (for micro SIM cards or smaller cards a corresponding adapter is required)
3. Place the SIM card into the tray
4. Slide in the fitted holder carefully



*1 Only with standard loan kit

3 Starting up TCG

1. Supply the TCG with power:
 - a. Set the power supply to **12V**
 - 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	The TCG lights up yellow after switching on
Blue	No Internet access; GPS active	After booting the TCG, it may take a few minutes for a GPS signal to be received or for Internet access to be established
Pink	Internet access available; GPS not active or no GPS reception	
Green	Internet access available; GPS active	
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 WiFi network

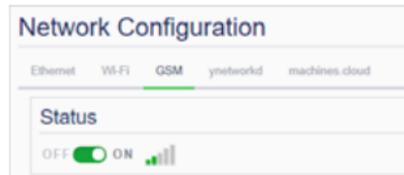
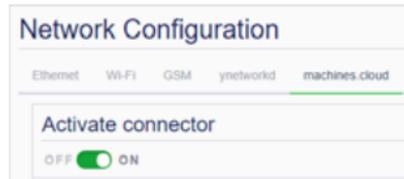
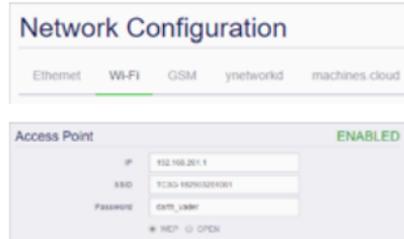
Example with TC3G:

SSID: TC3G-XXXXXXXXXXXX	WiFi MAC: XXXXXXXXXXXXXXX
WiFi Pw: XXXXXXXXXXXXXXX	Security mode WPA2 Personal
87600 Kaufbeuren, Tel. (08341) 8008-0	

- ⇨ Network name: TC3G-"serial number"
 - ⇨ Password: see label on the TCG
2. Open address "192.168.201.1" in your browser
 3. Click on "Login" in the left menu bar
 4. Login data: ⇨ Username: admin
⇨ Passwort: admin

6 Configuring machines.insight

1. Select "System" in the left menu bar
2. Switch to Wi-Fi within "Network Configuration"
3. Select the "Access Point" window on the right
4. Change the password for Wi-Fi access
5. Click on "Save"
6. Switch to "machines.cloud" within the "Network Configuration"
7. Switch the Activate connector to "ON"
8. Click on "Save"
9. Switch to GSM within "Network Configuration"
10. Does the SIM card already have a PIN? Set the PIN switch in the GSM window to "Yes" and enter the PIN
11. Set GSM 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 (Point 7)

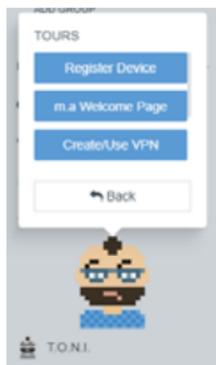
7 Configuring a M2M SIM card (only necessary for M2M SIM cards)

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

The screenshot shows the 'Network Configuration' page for GSM. At the top, there are navigation tabs: Ethernet, Wi-Fi, GSM (selected), yubikey, and hardware cloud. Below this is a 'Status' section with a green indicator and a signal strength icon. The main area is divided into two panels: 'SIM Configuration' and 'Custom Configuration'. The 'SIM Configuration' panel is labeled 'DETECTED' and contains input fields for APN, Carrier, MCC, MNC, User, and Pass. The 'Custom Configuration' panel is labeled 'ENABLED' and contains input fields for APN (value: 7), Carrier (value: T-Mobile Internet), MCC (value: 262), MNC (value: 01), User (value: m2m), and Pass (value: 1234). Below these panels are fields for IMEI and PIN, with a green 'YES' indicator next to the PIN field. At the bottom, there is a yellow warning box that reads: 'Don't forget to save your changes to the device! Changes will take effect after a restart of the device!' and a 'Save' button.

8 Registration in machines.cloud and first steps

1. Open the e-mail from no-reply@machines.cloud with the link to the cloud
2. Click on the link and change your password on the web page
3. Log in with the new access data
⇒ User name: tenantname_admin
4. Top right click on "<<" 
5. 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

Password: connectivity

T.O.N.I. Tours:

⇒ Available in machines.cloud and machines.access

⇒ Top right click on „<<“

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