

INSPEKTO S70 Connectivity Overview

In order to obtain any automated process in the manufacturing line, whether it is a fully automated line, or a partially automated test station, it is essential to allow a procedured, automatic communication between different entities in the manufacturing process.

Typically, in a fully automated line, the managing entity would be an industrial PLC, which will be connected to every sensor, piston and device on the line and will manage and control the various line processes and activities.

In a semi-automated process, the managing entity might be the main process handler, such as an industrial robot or cobot.

For any type of automated inspection station, it is essential to be able to communicate, share data and support the automated decision-making process. To do that, the INSPEKTO S70 is pre-set to automatically communicate with PLC's, Robots/Cobots and other factory automation devices.

Using Connectivity, the INSPEKTO S70 can:

- Report general PASS/FAIL inspection results.
- Report detailed PASS/FAIL results per region of interest.
- Report system status such as – system readiness, current inspection mode, current active profile, and more.
- Receive commands from the connected device:
 - Load an inspection profile.
 - Change trigger mode.
 - Trigger a new inspection (with a unique ID or without)
 - Start a new batch.

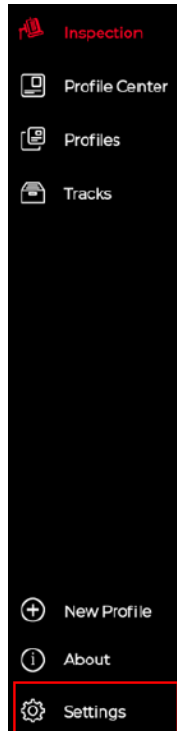
The INSPEKTO S70 supports the following connectivity methods:



Setting the INSPEKTO S70 connectivity type

In order to set the INSPEKTO S70 for each of the above connectivity types:

1. Open system settings by pressing on the cog icon in the bottom left tool bar of the screen.



2. Under "General" – scroll down to the "Connectivity" section.

S70 Settings

- General
- Backup
- Restore
- Version Upgrade
- Ftp Export
- Network
- Advanced
- Permissions
- Support
- Power

Connectivity

Profinet

Connectivity Keep-alive timeout (s) 5 (1-∞)

S70 to PLC response pulse width (ms) 1,000 (100-∞)

Connectivity Feedback Interface

Timeout for polling data from the PLC (ms) 100 (20-200)

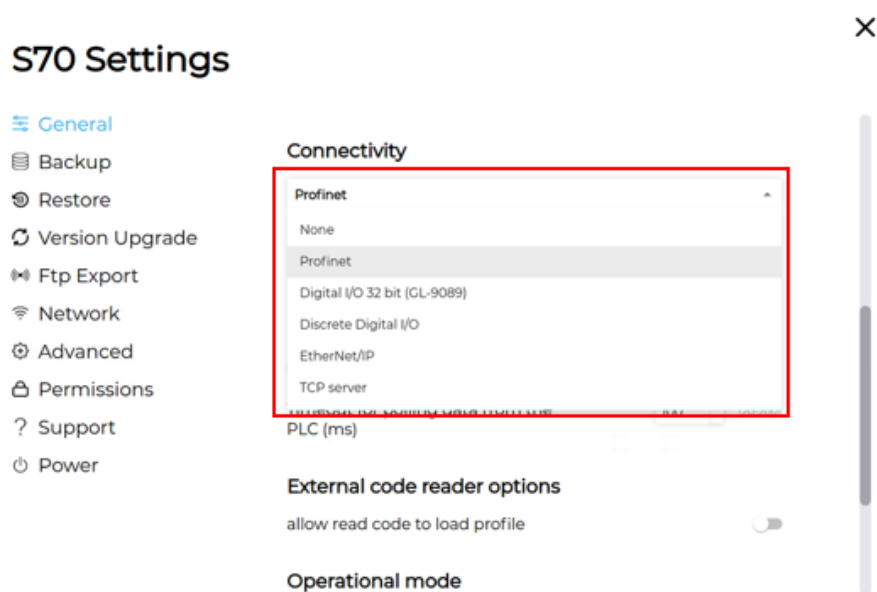
External code reader options

allow read code to load profile



Operational mode

3. Select the wanted connectivity type from the drop down menu.
 - For TCP/IP and Ethernet IP – after selecting the method, also set the needed IP address and subnet mask.

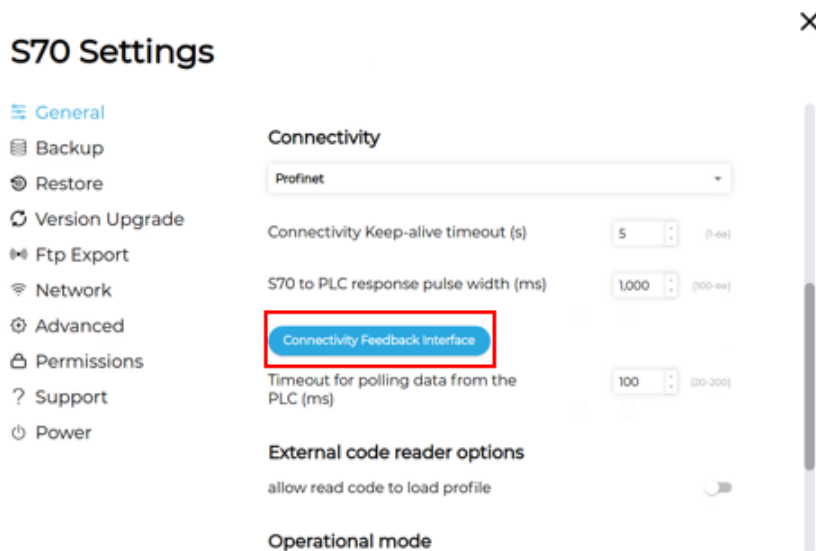


After selecting the connectivity type the INSPEKTO S70 will automatically communicate in the selected protocol.

Testing your communication

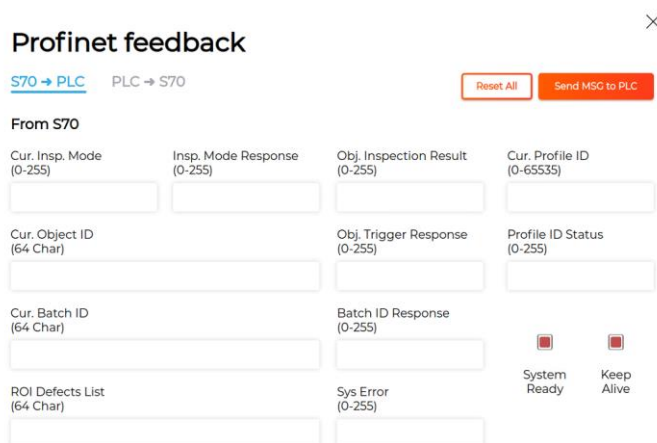
The INSPEKTO S70 offers a connectivity testing environment to allow proper communication between the INSPEKTO S70 and the connectivity device.

In order to test your communication, after selecting the wanted connectivity type, press on the “Connectivity Feedback Interface” button:



Pressing this button will open the “Connectivity Feedback Interface” which will automatically adapt to the selected connectivity type.

Connectivity Feedback Interface will allow you to see all incoming messages from the connected device to the INSPEKTO S70, and to send all wanted messages from the INSPEKTO S70 to the connected device.



- When working with Connectivity Feedback Interface, all messages are shown, but the INSPEKTO S70 will not act on them.

To find out more about each connectivity type, Connectivity Feedback Interface and how to integrate it to your systems please visit our technical support page and download the needed manual:

<https://inspekto.com/support/>