

# Application note: Box programming

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## 1 Document version

Revision	Date	Editor	Changes
0.1	18.09.2020	M. Hutzl	First draft
1.0	18.03.2021	A. Storm	Editorial
1.1	05.03.2021	A. Storm	Chapter 6 added
1.2	10.01.2022	A. Storm	Links to Feig products updated
1.3	23.05.2023	A. Storm	Power supply and cable added to order information
1.4	30.06.2023	A. Storm	Impressum changed to Inventronics

## 2 FEIG ordering information

The T4T-P supports the HW listed below for the box programming feature.

Description	Order code	Link
HF antenna	ID ISC.ANT310/310	<a href="https://www.feig.de/en/products/identification/product/id-ant310310/">https://www.feig.de/en/products/identification/product/id-ant310310/</a>
HF reader	ID ISC.LR1002	<a href="https://www.feig.de/en/products/identification/product/id-lr1002/">https://www.feig.de/en/products/identification/product/id-lr1002/</a>
USB cable	ID CAB.USB-B	<a href="https://www.feig.de/en/products/identification/product/id-cabus-b/">https://www.feig.de/en/products/identification/product/id-cabus-b/</a>
Power supply	ID NET.24V-B Power Supply Unit 2557.000.00	
Power supply cable	ID CAB.NET.24V-B-EU Cable with European Plug 2558.000.00	

## 3 FEIG installation manuals

For technical information on FEIG hardware register on:

<https://www.feig.de/login/registrierung/>

After registration, navigate to the FEIG download center and read the installation manuals. Connect the HF antenna, HF reader and USB cable accordingly.

#### 4 Box programming reference installation

The box programming installation consists of:

Working plate                      Max. 25 mm, wood or plastic surface

HF antenna                        ID ISC.ANT310/310

HF reader                         ID ISC.LR1002

Computer & software            Installation of Tuner4TRONIC® Production 4.0 or higher

The antenna should be mounted on the bottom of the wood/plastic working plate. For best results, the working plate should not exceed the maximal thickness of 25 mm. A mark on the working plate should indicate the center and outline of the antenna mounted underneath for easier location of the LED driver boxes during programming.

**Note:**

- Any metallic components must maintain a distance of at least 50 cm from the HF antenna.
- Do not place HF noise emitters in the area of the HF antenna.



Figure 1: Amplifier ID ISC.LR1002



Figure 2: Antenna ID ISC.ANT310/310

## 5 Box programming handling

Boxes that support the box programming feature are marked with the NFC logo.



Figure 3: NFC logo

This logo on the LED driver box indicates that the LED drivers are released for box programming. The logo also indicates how to place the box on the NFC reader ANT310/310 antenna.

For programming, the NFC box must be placed on the center of the ANT310/310 antenna with the logo facing down.



Figure 4: Box with NFC logo



Figure 5: Orientation of the box to antenna ANT310/310

## 6 List of LED drivers available for box programming

Please find a list of drivers available for box programming: <https://www.tuner4tronic.com/ddstore/#/box>. Since driver boxes with and without a release for box programming are available under the same EAN, please order via IC (shown in the Info field) to ensure that you obtain the correct package during transition phase. The list is updated on a regular base.

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