

INSTALLATION

ID PAD74-U

PAD Reader with USB Interface





NOTE

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FEIG ELECTRONIC GmbH Industriestraße 1a D-35781 Weilburg (Germany) Tel.: +49 6471 3109-0

https://www.feig.de/en/ identification-support@feig.de

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Safety Instructions

- ► The device may only be used for the intended purpose designed by for the manufacturer.
- ► The operation manual should be conveniently kept available at all times for each user.
- Unauthorized changes and the use of spare parts and additional devices which have not been sold or recommended by the manufacturer may cause fire, electric shocks or injuries. Such unauthorized measures shall exclude any liability by the manufacturer.
- ► The liability-prescriptions of the manufacturer in the issue valid at the time of purchase are valid for the device. The manufacturer shall not be held legally responsible for inaccuracies, errors, or omissions in the manual or automatically set parameters for a device or for an incorrect application of a device.
- ► Repairs may only be executed by the manufacturer.
- ▶ Installation, operation, and maintenance procedures should only be carried out by qualified personnel.
- Use of the device and its installation must be in accordance with national legal requirements and local electrical codes.
- ▶ When working on devices the valid safety regulations must be observed.
- Before touching the device, the power supply must always be interrupted. Make sure that the device is without voltage by measuring. The fading of an operation control (LED) is no indicator for an interrupted power supply or the device being out of voltage!
- Special advice for wearers of cardiac pacemakers: Although this device doesn't exceed the valid limits for electromagnetic fields you should keep a minimum distance of 25 cm between the device and your cardiac pacemaker and not stay in the immediate proximity of the device's antenna for any length of time.

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1 ID PAD74-U PAD Reader with USB-Interface

- The ID PAD74-U is an RFID PAD reader for contactless data exchange with passive transponders and combines a reader and an antenna in one housing.
- The compact format allows the PAD74-U to be positioning "on" and "under" any nonmetallic mounting or table top.
- It is suitable for many desktop applications in offices, industry or libraries (output and return). The high processing speed and easy configuration allow ideal adaptation to the customer application.
- There are three status LEDs (color green. blue. red) on the front side, which indicates the status of the reader with antenna (see 4.2 LED Indication).

Features				
Supported Standards	ISO 15693ISO 18000-3 Mode1			
Operating Frequency	• f = 13,56 MHz			
Max. RF Transmitting Power	• P = 400 mW			
Antenna Connection	fixed cableUSB Interface			
Protection Class	• IP30			
Status LED	LED (green, blue, red)			
Table 1: Features				

1.1 Scope of delivery

- ID PAD74-U PAD Reader with USB-Interface
- Document "Quickstart"



1.2 Available Software-Tools, USB drivers and Firmware

The service software and the corresponding USB driver (HF/UHF reader or FEIG ID driver) for personal computers with Microsoft® Windows® operating systems, are available on the Feig homepage under "Service -> Driver".

Further documents and software tools can be found under the link: https://www.feig.de/en/login/

Login: CPR74 Password : FE900

(i) NOTE:

- The Reader ID PAD74-U reports itself in ISOStart+ 2023 (version 11.08.xx or higher) as "ID CPR74".
- A firmware update tool and an xml firmware file are available for firmware updates.

1.3 Difference between ID PAD74-U and ID CPR74-CUSB

The reader module installed in the ID PAD74-U does not support all commands and functions that are available in the reader module ID CPR74-CUSB.

(see Manual H60410-Xe-ID-B)

Since ISO 15693 and ISO 14443-A/B transponders are mainly used in the intended applications, the following transponder drivers have been switched off in the reader configuration and cannot be activated.

Unavailable functions and transponder drivers:

• ISO 18000-3M3

(i) NOTE:

- The ID PAD74-U rejects the activation of an invalid transponder driver" with the error message "Parameter Range Error".
- The commands of the internal reader ID CPR74-CUSB belonging to the disabled transponder driver are not available.
- In the factory default state, the provided antenna (ANT2) inside ID PAD74-U is activated. The internal antenna installed on the reader module ID CPR74-CUSB can additionally be activated via the reader configuration.

2 Dimension

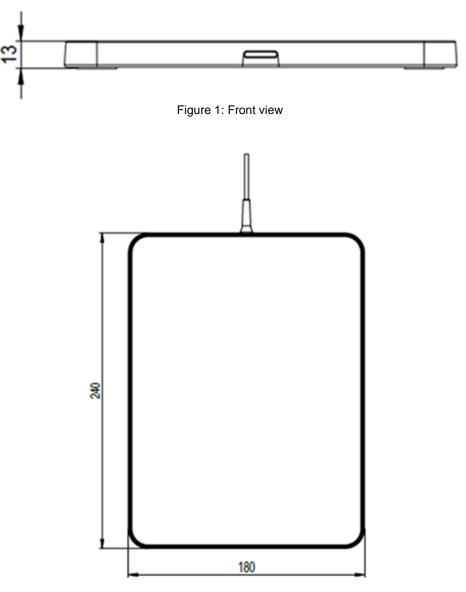


Figure 2: Top view with housing dimension

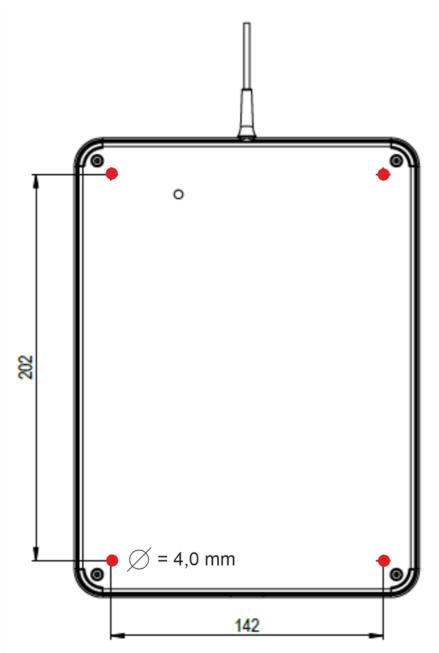


Figure 3: Drilling pattern under table mounting

3 Installation

- The PAD74-U is designed for operation on a non metallic, flat surface (e.g. table) or for under table mounting (non metallic) indoors.
- Device connection via USB cable (2.3 m)
- The cable length must not be changed.

3.1 Table top mounting

- Positioning the device on the table top.
- The rubber feet on the bottom of the case prevent it from moving.

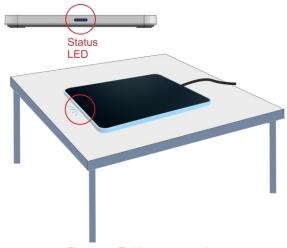
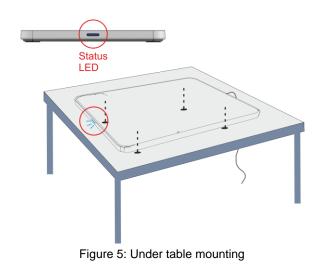


Figure 4: Table top mounting

3.2 Under table mounting

Please follow the instructions in the Table 2: "Instructions for under table mounting".









• The antenna is aligned with the top (front foil side) facing up and mounted.



Figure 10: Under table mounting

(i) NOTE:

- Before mounting, the rubber feet must be removed.
- Use drilling pattern
- Drilling holes at locations other than provided in drilling pattern, will destroy the electronics.
- Make sure that the surface of the tabletop is not damaged.
- The length of the screws must be dimensioned according to the table top thickness.
- The table top must not be made of metal or magnetically materials.
- If the mounting/table top is too thick (wood, plastic), the reading range is reduced (ideally < 25 mm).

Table 2: Under table mounting

4 Commissioning

- Device connection via USB cable (2.3 m) The cable length must not be changed.
- The device has no ON/OFF switch. All functions (status displays, transponder detection) are displayed via the status LEDs (green, blue, red) and are available after the startup process
 (see 4.2 LED Indication)
- The standard reader configuration can be adapted to the application using the ISOStart service software from version 11.07.xx or higher
- The service software can be found on the download area of FEIG ELECTRONIC GmbH at https://www.feig.de/en/

4.1 DC Power supply

- U = 5 VDC
- I_{max} = 500 mA
- Via USB 2.0

4.2 LED Indication

	LED-Signal	Description
.5 sec	Green LED / RUN LED flashes	Reader is in Host-Mode
*	Green LED / RUN LED is on	Reader is in Scan-Mode
1 x 1s	Blue LED is on (1 s)	Transponder detected
alternating	Green and red LED flashes alternately	ERROR message

Table 3: LED Indication



5 Radio Approvals

5.1 Declaration of Conformity (CE), (UKCA)

	CE Declaration of Conformity	
CF	Hereby FEIG ELECTRONIC GmbH declares that the radio equipment type ID PAD240-U is in compliance with directive 2014/53/EU.	
	The full text of the EU declaration of conformity is available at the following internet address:	
	https://www.feig.de/en/service/eu-declarations-of-conformity/	
	UKCA Declaration of Conformity	
UK	Hereby FEIG ELECTRONIC GmbH declares that the radio equipment type	
<u>U</u> <u>N</u>	ID PAD240-U is in compliance with directive No. 1206 Radio Equipment Regulations 2017.	
	The full text of the UKCA declaration of conformity is available at the following internet address:	
	https://www.feig.de/en/service/ukca-declarations-of-conformity/	

6 Technical Data

	Mechanical Data
Wight:	approx. 0,5 kg
Dimension:	(240 x 180 x 13) mm ³
(L x W x H)	(9,45 x 7,08 x 0,51) in3
Front cover:	Insensitive surface
Housing:	ABS
Protection class:	IP30
Color:	
PAD	RAL 9003 (white)
Upper side	black
	Electrical Data
Operating frequency:	13,56 MHz
Max. RF transmitting power:	P = 400 mW
Power supply:	5 V DC via USB
Max. Power consumption:	P = 2,5 W
Interface:	USB 2.0
LED Indicator:	3 x LEDs (green, blue, red)
Supported Transponder:	 ISO 14443-A/B NFC Tag Type 1-4 ISO 18000-3 MODE 1 e. g. EM HF ISO Chips, Fujitsu HF ISO Chips, Infineon my-d, KSW Sensor Chips, NXP ICODE SLI family, STM ISO Chips, TI Tag-it, NXP MIFARE family, NFC Devices in Card Emulation Mode (Tag Type 15)
Reader Mode :	ISO Host Mode Scan Mode
Temperature range:	
Operation Storage	 -25 °C bis +55 °C (-13 °F up to 131 °F) -25 °C bis +70 °C (-13 °F up to 158 °F)
Relative air humidity:	5 % bis 95 % (no condensing)
	Standard conformity
Radio license:	
Europe	EN 300 330
UK	EN 300 330
USA	FCC 47 CFR Part 15
Canada	IC RSS-GEN, RSS-210
EMC:	EN 301 489
Safety & Health:	EN 62368-1, EN 50364

Table 4: Technical Data

7 Cleaning / Care

Clean surfaces with clean, soft microfiber cloth and a solution of water with a little detergent.

(i) NOTE:

- Using the wrong cleaning agents or cleaning cloths can damage the surface of the front foil.
- Do not use harsh, solvent-based or corrosive cleaning agents.

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FEIG ELECTRONIC GmbH Industriestraße 1a 35781 Weilburg, Germany Phone: +49 6471 3109-0

Homepage:https://www.feig.de/en/Email:identification-support@feig.de

