

**Annex acc. to FCC Title 47 CFR Part 15
relating to
FEIG ELECTRONIC GmbH
ID PRM103-USB**

Annex no. 8 Operation / Antenna / Description

**Title 47 - Telecommunication
Part 15 - Radio Frequency Devices
Subpart C – Intentional Radiators
Measurement Procedure:
ANSI C63.4-2014
ANSI C63.10-2013**



Deutsche
Akkreditierungsstelle
D-PL-12053-01-03

Version	Applied changes	Date of release
00	Initial release	2025-08-25
01	Antenna description added	2025-09-26

Operation Description of the test equipment (EUT)

FEIG	Operational Description ID PRM103-USB, ID PR103-USB	Date: 2025-08-14
	FCC ID: PJMPRM103 IC: 6633A-PRM103	1 / 1

Operational Description

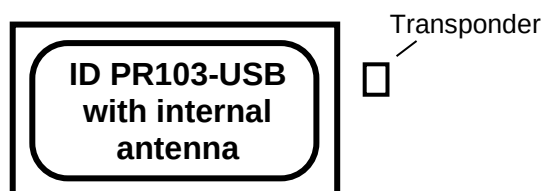
The HF Readers ID PRM103-USB and the ID PR103-USB including housing work at a frequency of 13.56 MHz. They comprise a reader with internal antenna and transponder (for example: smart label) and are used for wireless identification of a variety of objects.

The system works according the “reader talks first” principle which means that the transponder keeps quiet until the reader sends a request to it. The reader can rapidly and simultaneously identify numerous transponders in the antenna’s field. It can write data to and read data from the transponders; either in addressed mode by using the factory programmed read only number, or in general mode to all of the transponders in its field. The read/write capability of the transponder allows users to update the data stored in the transponders memory anywhere along its movements.

The ID PRM103-USB / ID PR103-USB Proximity Readers handle all RF and digital functions required in order to communicate with ISO 15693 compliant transponder from various suppliers.

They come with an USB interface for power supply and data transmission.

Configuration example:



FEIG	Antenna Information ID PRM103-USB, ID PR103-USB	Date: 2025-09-23
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Antenna Information

The HF RFID Readers ID PRM103-USB and the ID PR103-USB including housing have an integrated antenna. It is part of the electronic PCB and realized as a simple shielded loop with outer dimensions of 107 mm x 75 mm, routed close to the PCB border. It easily can be identified on the following PCB photo:



Due to the principles of RFID communication the quality factor of this loop antenna is strongly reduced for more bandwidth - so in the end it is very lossy. This results in a far field gain below -30 dB.