ID ISC.MRU102-A /-USB /-PoE

UHF Universal Reader for short / medium read ranges

- Small, compact and with internal antenna

- Read ranges of up to 50 cm with internal antenna / up to 4 m with external antennas

- Integrated Multiplexer

- 3x SMA antenna connector for external antennas

- Different power modes

- Variable interfaces: RS232, USB or PoE

- Supports Low Level Reader Protocol (LLRP)

- Internationale radio approvals

UHF Universal Reader with great flexibility

The compact reader achieves read ranges of up to 50 cm with its internal antenna and can also be operated with special UHF near field transponders.

In addition, the device can be connected to up to three external UHF antennas and achieves e.g. using the ID ANT.U290 / 290 from the FEIG antenna range, read ranges of up to 4 m.

The ID ISC.MRU102 is available in three device variants with Ethernet, USB or RS232 interface and can thus be variably integrated into existing systems.
A suitable mounting kit is also available for use in an industrial environment.

The output power of the reader can be configured in the range between 50 mW and 500 mW.

Wide range of applications

Thanks to its variability, the reader can be used in a wide range of different applications.

As a desktop reader with its internal antenna or in conjunction with an external antenna, it is used at production workstations or desks for sorting, picking, marrying or programming individual goods / transponders.

It is operated with external antennas at unattended self-service stations / kiosks (self-booking stations or automatic dispensers in e.g. libraries).
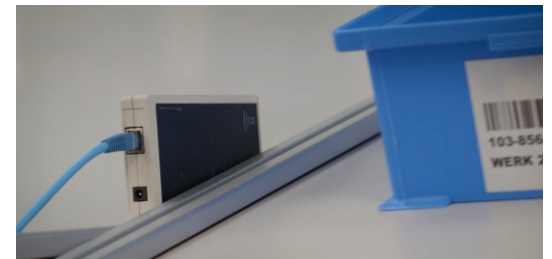In the industrial environment, it is recommended for integration in technical systems such as sorting and production systems as well as in tunnel solutions (conveyor belt, incoming / outgoing goods).
In addition, it is used to identify containers in the refill control (Kanban).

USB Universal Reader with great flexibility for variable integration in several applications

The compact UHF reader can be operated with the internal or up to three external antennas.
Available with three different interfaces, it is used in numerous applications.

Technical Data	ID ISC.MRU102-A /-USB / -PoE
Dimensions (W x H x D)	145 mm x 87 mm x 27 mm
Power supply	12...24 V DC / PoE
Power consumption	max. 7 W
Operating frequencies	865 MHz to 868 MHz
Output power	50 mW to 500 mW, configurable
Antenna connection	3x SMA plug (50 Ω), 1x internal antenna
Interfaces	RS232 (-A) / USB Full Speed (-USB) / Ethernet (-PoE)
Protocol modes	ISO Host Mode, Buffered Read Mode, Scan Mode (-A and -USB), Notification Mode (-PoE)
Supported transponders	EPC Class1 Gen2, ISO 18000-6-C
Signal generator	1 x LED (multicolored)
Temperature range	
Operation	- 25 °C to +55 °C - 25 °C to +45 °C (-PoE)
Storage	- 25 °C to +70 °C
Humidity	5 to 95% non-condensing
Radio approval	
Europe	EN 302 208
USA	FCC 47 CFR Part 15
Canada	RSS-Gen Issue 3, RSS-210, RSS-102
Japan	ARIB STD-T107
Brazil	Resolução No 506
EMC	EN 301 489
Safety & Health	EN 62368-1 EN 50364
Vibration	EN 60068-2-6 10 Hz to 150 Hz: 0,075 mm / 1 g
Shock	EN 60068-2-27 Acceleration: 30 g

Order descriptions

- ID ISC.MRU102-PoE (Art.-No. 4492.000.00)
  Housed version with Ethernet interface
  3x ext. antenna connectors (SMA plug 50 Ω)

- ID ISC.MRU102-USB (Art.-No. 4494.000.00)
  Housed version with USB interface
  3x ext. antenna connectors (SMA plug 50 Ω)

- ID ISC.MRU102-A (Art.-No. 4495.000.00)
  Housed version with RS232 interface
  3x ext. antenna connectors (SMA plug 50 Ω)

Optional accessories

- Power supply units & connection cables
- Mounting sets
- Antennas & antenna cables