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PRODUCT INFORMATION

ARU 2400 RFID Antenna Reader Unit

RAIN RFID Reader with an Innovative Connection Concept



KATHREIN

> RAIN RFID Reader with an Innovative Connection Concept ARU 2400

Faster, more transparent and reliable – radio-frequency identification (RFID) has firmly established itself as a control system for production material in industry and is a central component within an efficient value-added chain. In order to implement systems of this kind even faster, Kathrein Solutions GmbH is launching the RAIN RFID reader ARU 2400 on the market that is as easy to install as it is to operate!

Furthermore, the reader has excellent technical characteristics. The powerful RAIN RFID interface known from Kathrein and the robust design are also present in this 27-dBm-class reader. For this reason, the reader can be used in various applications. It is particularly in the areas of Industrial Automation and Kanban solutions in which the ARU 2400 can play to its strengths.

The ARU 2400 provides new mounting and connection options. The housing of the ARU 2400 can easily be installed in existing shelves using the mounting points for the so-called ITEM profiles, which enables quick and cost-effective new installations or retrofitting.

FAKRA Standard Antenna Connections

The plugs and sockets are just as easy to operate. For both the power supply and the terminal block of the digital inputs and outputs, a terminal strip with screw terminals – which allows direct cable installation – is installed. Furthermore, the reader has antenna connections in accordance with the FAKRA standard. These antenna connectors known from the automotive industry are robust and vibration-resistant. The coded connectors lock in place with a click and are connected in seconds, which makes installation in large rollout projects considerably easier and also reduces hardware costs.

> Applications

The new ARU 2400 is ideally suited for all simple AutoID applications in industry, intralogistics and healthcare areas. Due to its innovative connection and functional concept, the reader meets all requirements for digitisation of the existing production and logistics processes in a cost-effective and flexible way.



Picture: Production process control
An integrated RAIN RFID reader in a KanBan shelving system for inventory management and production control, based on the pull principle and representing a self-managing control cycle

Performance in the 27-dBm Class

With the ARU 2400, Kathrein relies on the well-known, powerful RAIN RFID front end. This allows for a secure reading of the RAIN RFID transponders in the range of up to 3 metres. The integrated SMSH High-Gain antenna system with an opening angle of 60°/60° enables extremely selective detection of the transponders in the desired reading field.

Furthermore, at its 3 external antenna terminals, the reader has the Kathrein antenna interface ©KRAI to be able to control dynamic and intelligent antennas. This way, depending on power requirements, it is possible to control up to 8 antennas in a cascade per FAKRA port. This reduces costs by up to 40%, particularly in applications with multiple reading points, such as KanBan shelves.

4 freely programmable LEDs, which are perfectly visible at daylight, enable a customisable visualisation of the individual process steps and inform employees about the status of the device.

> Features

- Quick and easy commissioning
- Ready for shelf mounting
- Ready-made cable assembly
- Innovative antenna connections