

metraTec® QuasarLR HF RFID Reader

The QuasarLR is an HF long range RFID reader/writer for demanding industrial applications, where high reading reliability, high read ranges and extensive special tag features are needed.

Highlights include an RF power of up to 4 W which allows a read range of up to 60cm with the right antenna (e.g. our Lambda-40 Loop Antenna). This allows even difficult applications directly at conveyor belts, in production machinery and in laundry applications.

The communication to the host system is done via USB or Ethernet port. Other interfaces, such as WiFi, RS485 or even Fieldbus technology are available on request. To facilitate its integration into machines and to allow ease of control via PLCs the device offers optically isolated 24 V DC Inputs and Outputs.

Integration into IT systems based on Windows is supported by a .NET DLL as well as a Java SDK which come with the device free of charge. A demo software with a comprehensive set of features allows easy testing of the device. An example for the controlling the reader using CodeSys/IEC 61-131 can also be supplied.

Applications

- Use in machines with control via a PLC
- Box identification with a direct connection to an ERP system
- RFID applications with high read range requirements



Technical Specification

Operating Principle	HF RFID Long Range Reader
Operating Frequency	13.56 MHz (HF RFID)
Protocol	ISO 15693 incl. all special features
Operating Voltage	24 V DC
Communication	USB, Ethernet
Inputs/Outputs	optically isolated 24 V Inputs (2x), 24 V Outputs (4x), 24 V Power Out (1x)
Antenna Connector	BNC, female
Read Range	up to 600 mm (with matching antenna)
RF Power	up to 4 W
Operating Temperature	-20°C to +75°C
Housing, IP Class	Aluminium, IP40
Dimensions	190 x 205 x 65 mm
Conformity	CE, e.g. ETSI 300 330

At a Glance

- High Read Range
- Industrial Inputs/Outputs
- Transparent Mode for custom tag commands, e.g. temp-sensors

About metraTec

metraTec develops, manufactures and sells RF hardware for the product segments „Identification“, „Localization“, „Communication“ and „Wireless Power“. It serves a variety of industries, both with standard products as well as custom solutions. Our customers are system integrators, OEM customers as well as research institutes world wide.

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