deister – innovative products and solutions

The name deister electronic has been synonymous with innovative RFID products and solutions in the fields of security and automatic identification for more than 35 years. Our portfolio of products is used to manage keys and valuable objects, for vehicle identification, access control as well as logistics and automation technology. Developing and marketing new technologies as well as interfaces between products and systems forms the basis to create flexible solutions for customer-specific applications.

The rugged UHF long range reader with integrated antenna

The TSU 200 is a compact UHF reader for the identification of vehicles and objects from medium distances. With its integrated antenna, it reliably detects UHF transponders. Filter functions and an "auto-tune mode" ensure that the TSU 200 can be installed quickly and easily. The robust housing can withstand even the severest conditions in industry and the environment. This allows the TSU 200 to provide valid results all the time. Readily visible LEDs and an integral beeper indicate positive identification to the user.
Vehicle transponders encoded with the deister smartframe can be utilized in applications in vehicle access areas. Transponder data in industrial applications are filtered with the aid of the DCU controller and, if required, combined with other events. That ensures only the desired information reaches the host system.

Your benefits at a glance:

- **Simple installation – no coaxial cables**
- **Antenna always in the optimum position – "auto-tune mode"**
- **Calibrated radiant power**
- **Large traffic-light display for status signals**
- **Plug-and-play for easy installation and maintenance**
- **IP 66 / IP 67 housing with industry-standard connections**
- **Prepared for Ethernet, Profibus, DeviceNet and other bus systems**

Technical data

Dimensions WxHxD:	200 x 175 x 60 mm
Weight:	1.2 kg
Housing material:	ALU, ABS, PC
Protection class:	IP 66 / IP 67
Operating temperature:	-25...50°C
Relative humidity:	5…95%, non-condensing
Power requirement:	12...24 VDC / max. 1A
Frequencies:	865 – 868 MHz (EU) or 902 – 928 MHz (US)
Output power:	Max. 1 W ERP (ETSI EN 302 208) Max. 1.6 W EIRP (FCC part 15)
Antenna	
Beam angle:	90°
Polarization:	Circular
Transponder protocols:	ISO18000-6 C (EPC Class1 Gen2)
Anti-collision:	Identification of several transponders in the reading field
Reading/writing distance:	Up to 7 m, depending on transponder type, antenna configuration and ambient conditions. The writing distance is 50% of the reading distance.
Interface:	RS485
Conformity:	
Human exposure to EM fields	EN 50364
EMC	EN 301 489
Air interface	EN 302 208

