

Flexible and robust RFID UHF read/write systems from deister electronic provide fast and reliable identification of stationary and moving objects from various distances.

UDL500

The UDL500 is especially suited for the retail and logistics market for long range identification and high volume bulk reading of passive UHF transponders. The compact device has integrated antennas.

ISO 18000-6C and EPC transponder protocols are supported. Firmware can easily be reflashed. This ensures that your investment will be long lasting and makes future innovations easy.

Gate and other multiple reader applications can be easily achieved with the DCU1 Data Control Unit.

Your benefits at a glance

- **Easy installation (no coax-cable or power measurement necessary)**
- **Fully self-contained and compact**
- **Integrated and factory tuned antennas for maximum range**
- **Optimally calibrated transmitter power**
- **Large LED display for user feed-back**
- **Plug & play solution**

Technical Data

Dimensions (mm):	620 x 280 x 75
Housing:	ABS/PMMA, silver
Protection class:	IP 65
Operating temperature:	-20°C ... +70°C
Storing temperature:	-40°C ... +85°C
Relative humidity:	5% ... 95% non-condensing
Power supply:	10 ... 30 V/DC
Power consumption:	10W (operation) 2W (stand-by)



Operating frequency:	865-868 MHz (EU), or 902-928 MHz (USA)
Read/write range:	up to 5m depending on the type of transponder and the conditions of the environment
Radiated output power:	2W ERP (ETSI EN 302 208), or 4W EIRP (FCC Part 15), configurable in 10 steps
Transponder protocol:	ISO 18000-6 Type C EPC Class1 Gen 2 Optional: ATMEL ATA 5590 EM 4022, 4222, 4422
Trigger Input:	8-36 V/DC
Digital Output:	6-32 V/DC : I<500mA 32-48 V/DC : I<300mA
Interface:	RS 485
Anti-collision:	High speed registration for bulk reading
Compliance:	Human exposure EN 50364 EMC EN 301 489 Air Interface (EU) EN 302 208 (LBT) EN 300 220
Optional: Air Interface (US)	FCC Part 15