User Manual

0558A02C-001 – DC Analyser

REVISION 1.0, 2007-11-07

Operation

The DCAnalyser is used for analysis of LTO data cartridges. It contains on the one hand a RFID read-/write-device (short: reader) which is compatible to read LTR labels embedded in LTO data cartridges and one the other hand an integrated bar code scanner to read bar code labels applied on LTO data cartridges. All functions of the DC Analyser can be controlled over a USB interface which allows data exchange with a host computer. This includes:

- functions to control the RFID reader: e.g. switch on / off RF field, read / write to a LTR label.
- functions for bar code scanner: enable / disable scanner, read labels.
- functions for controlling the two LED's on the front of the housing.
- system functions: e.g. status of device

To ensure full operation it is important that a external wall adapter is used (USB self powered).

To process a cartridge it is important that it is applied as shown on the front foil of the device, the antenna of the reader is located as shown on the picture (green rectangle):

Hint: the reader generates a magnetic field with the frequency of 13.56MHz which is influenced by any electrically conductive material in close proximity to the antenna. A minimum of 10 cm is required to ensure that there will be no significant degradation of the performance in terms of read range and reliability.

Specifications

Dimensions:

- Length: 252 mm
- Width: 112 mm
- Height: 80 mm

Host interface: USB via virtual COM-Port , 115200 baud, 8N1

Power supply: 5VDC, +-5%

Current consumption:

Idle (typ.):	70mA
Barcode scanner on (typ.):	135mA
RF field on (typ.):	160mA
max:	500mA

Operating temperature range: +5..+45° C

Storage temperature range: -20°C..+70°C

Thermal shock: 30°C/min maximum dT/dt

Relative humidity: 5% .. 95% (not condensing)

Weight: 310g

Accessories:

- USB Cable
- AC/DC Adapter

Input:	100-240V AC
Output:	5V DC / 1.0A

Caution: only the original wall adapter should be used to ensure full operation.

RF Characteristics:

- Operating frequency: 13.56 Mhz
- Data transmission modulation reader to card: AM
- Data transmission modulation card to reader: AM/load modulation

General regulatory requirements

FCC:

Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Class 1 Laser:

- Product complies with 21CFR1040.10 and 1040.11 except for deviations pursuant to Laser Notice No.50, dated July 26, 2001.
- EN60825-1:1994+ A1:2002 +A2:2001
- IEC60825-1:1993+ A1:1997 +A2:2001
- Class 1 Laser devices are not considered to be hazardous when used for their intended purpose. The following statement is required to comply with US and international regulations:
  Caution: Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous laser light exposure.

CLASS 1 LASER PRODUCT
LASER KLASSE 1
APPAREIL A LASER DE CLASSE 1