



Advanced Card Systems Ltd.
Card & Reader Technologies

ABR Series- Balance Readers



Technical Specifications



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1.0. Introduction



ACS supplies a wide range of balance readers (value checkers) to suit various applications. Our adept engineers produce in-house software and hardware and deliver in a short lead time. These portable devices can be configured for use in different applications like simple balance checking, viewing transaction records, identity verification, campus environment (such as class attendance and library record), and more. Our balance readers

can also be easily customized to satisfy customer requirement (type of cards to be read, functions of the reader, color, casing, etc.)

ABR balance readers can be used for checking the balance in your electronic purse card (e.g. Visa Cash, Mondex, Gemplus cash card, prepaid payphone card (Eurochip 4436), and e-Park card. You can also view the latest transactions on your card and use it to show user information such as name and contact number.



2.0. OEM/ODM

You may want your own brand name/logo printed on the balance reader for promotional purposes. Choose any color and even the design you want. Other customizations are possible according to your requirements. OEM and ODM inquiries are most welcome.

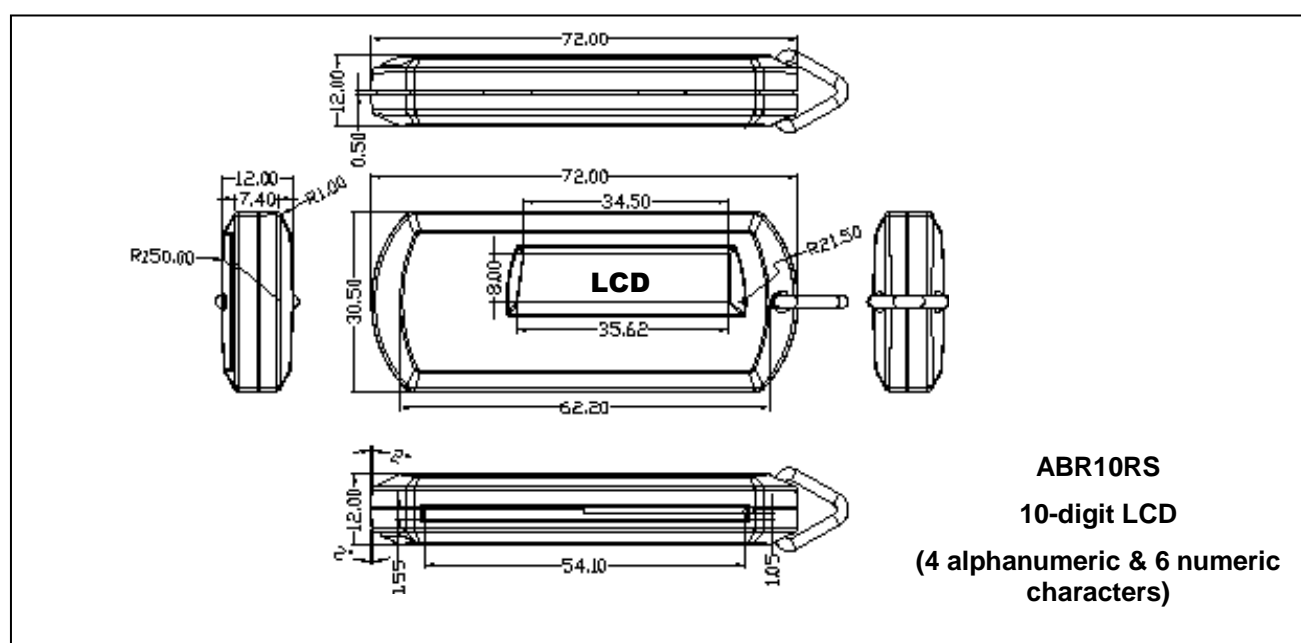
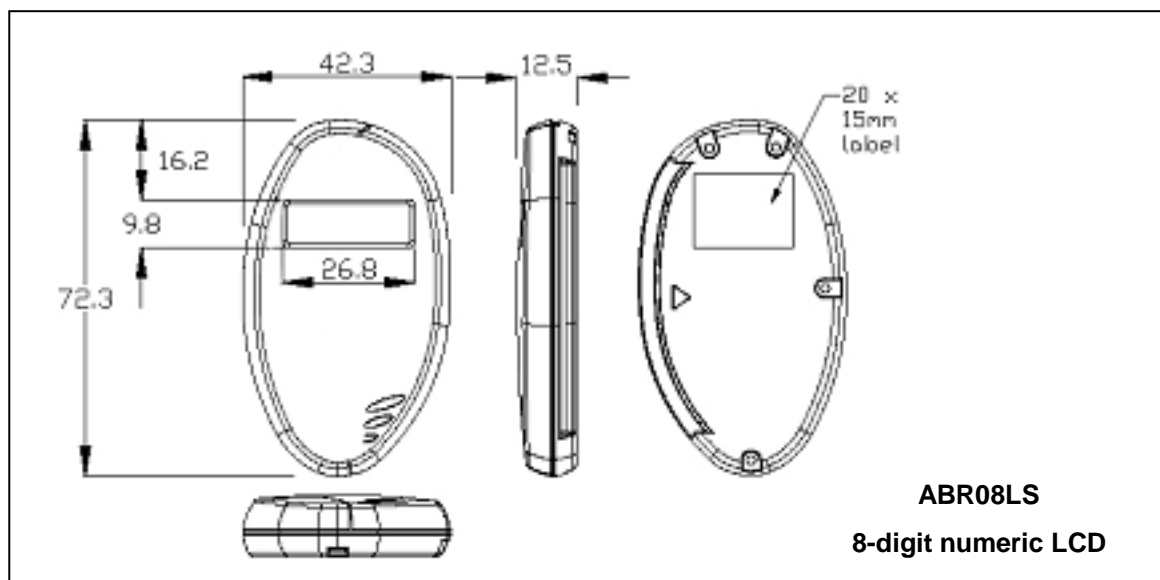
These handy balance readers encourage the use of e-purses by consumers. They can easily check the status of their e-purse to verify their expenses and balances. Hence, the e-purse, as a relatively new method of payment, can be used with confidence.



3.0. Features

- View electronic purse card balance
- Pocket readers for everyday use
- Competitive price
- State-of-the-art casing design
- Long-lasting battery
- Replaceable battery
- Optional button/s and LED/s
- Keychain
- Optional function to record and display previous transactions
- Information is automatically displayed after card is inserted
- Support memory and/or MCU cards as required by customers

4.0. Technical Specifications



- Notes:** 1.) Keychains are included for all standard versions of balance readers.
2.) Remove smart card from the reader after operation in order to save battery power.



Power supply

Power supply2 pieces of 3-V lithium connected in series, replaceable
Supply current5 mA (without smart card)

LCD display

ABR08LS8-digit display (numeric characters)
ABR10RS10-digit display (4 alphanumeric & 6 numeric characters)

Smart Card Interface

Card detectionCard detection by card contact
CLK frequency1.05 MHz
Card connectorsliding contacts (8 contacts)
Card insertion cyclesmin. 100,000

Case

Dimensions (ABR08LS) 72.3 mm x 42.3 mm x 12.5 mm
Dimensions (ABR10RS)..... 72 mm x 30.5 mm x 12 mm
Color (ABR08LS)..... Silver
Color (ABR10RS) Semi-transparent blue
Weight (weight including keychain) 25g, 20g

Operating Conditions

Temperature0 - 50° C
Humidity40% - 80%

Standard/Certifications

ABR10RS - CE, FCC

Customization

Logo printing
Number of display digits
Alphanumeric display
Casing design
Types of cards supported