



***Scan quantity demo application
with (Micro)PDF417 and RSS***

Manual

Version LFD25782

for OPL9728

(For Operating System versions LBDV0225 or higher)

CAUTION: This user's manual may be revised or withdrawn at any time without prior notice.

Version

User's manual for Graphical scanning quantity demo application with (Micro)PDF417 and RSS

Model: OPL9728

Version: LFD25782

Operating System (OS) version: LBBV0225 or higher

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1. Keys

The OPL9728 has full numeric keypad with some additional control keys.



The Q1 key (Up key) or with shift left key.



The Trigger key.






The Q2 key (Down key) or with shift right key.



While holding the shift key and pressing a numeric key the alpha representative value is displayed on the screen.

2. The Menu structure

The menu structure consists of several menu items. These items together form the Main and submenus. To navigate through the menu's the  and  keys can be used. Item from the menu can be selected by pressing the ENT or the  button. Direct selection of the menu is also possible by pressing the numeric equivalent of the menu item.

Below is the schematic representation of the menu that is displayed in the OPL9728.

```

• 1 Scan labels
• 2 Scroll data
• 3 System menu
  • 3-1 (back)
  • 3-2 Barcode
    • 3-2-1 (back)
    • 3-2-2..16 enable barcode types
  • 3-3 Communicate
    • 3-3-1 (back)
    • 3-3-2 Baudrate
      • 3-3-2-1 (back)
      • 3-3-2-2..8 select baudrate
    • 3-3-3 Protocol
      • 3-3-3-1 (back)
      • 3-3-3-2..3 select protocol
  • 3-4 Battery volt
  • 3-5 Memory
  • 3-6 Date / time
  • 3-7 Standby time
    • 3-7-1 (back)
    • 3-7-2..9 select standby time
  • 3-8 Backlight
• Delete data
• Send data
• Version

```

2.1 Scan Labels



No data on RAM disk.

By pressing the trigger button the laser line emits and it is possible to scan a barcode.




Data present on RAM disk.

By pressing the trigger button the laser line emits and it is possible to scan more barcodes.





Barcode can now be scanned by pressing the trigger button. Keyboard input is also possible. To enter alpha data press the shift button and while keeping it pressed press any of the numeric keys. To enter the input data press the ENT key.

To return to the main menu the  key or the CLR key can be pressed.



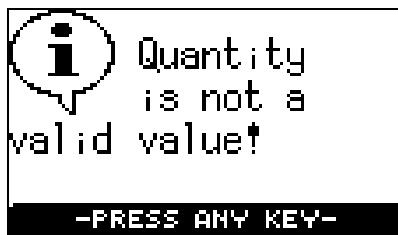
Data in display after scanning or entering a barcode.

The total value is the found quantity in the database. If the entered data does not exist in the database the total value is 0.

The value within the rectangle is the default value. Any numeric input smaller than 4 digits could overwrite the default value. To input a negative value, keep the  pressed and press the . To make a negative value positive, repeat the same process.

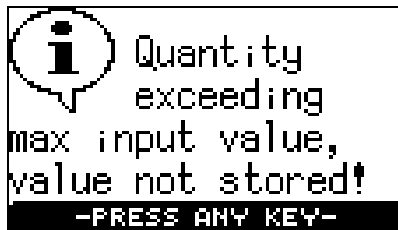
To enter the input press the ENT or trigger key.

If the Total + Add quantity is 0 (zero) the record is deleted from the database.



If the entered quantity is not a valid value this message box will appear. By pressing any key the OPL9728 returns to the quantity input.

A 0 (zero) is a valid input then the changes are not stored in the database.

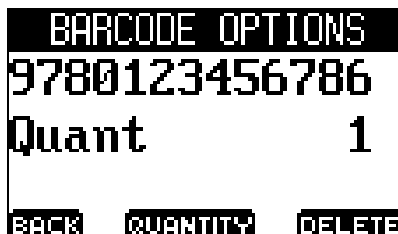


If the total quantity in the database with the newly added quantity exceeds 999999 or -999999 then this message appears. The added quantity is stored in the database. After pressing a key the scan barcode menu appears.



After entering the quantity the application returns to the scan barcode. Shown on screen is now the previous scanned barcode with the quantity in the database.


Pressing the Q2 key will open a special menu item that can perform some operations on the previous scanned barcode.

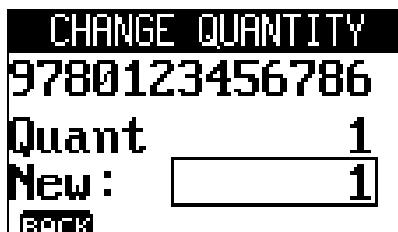


will return to the scan barcode menu.

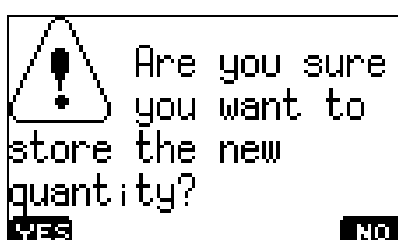


deletes this record item from the database.

By pressing the  button the quantity that is stored in the database can be changed.



Changing the quantity happens the same way as the add quantity input. The default value is the value that is stored in the database.



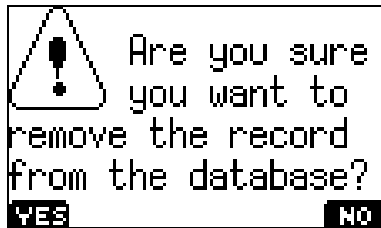
If the default value is changed to a new value this message appears on the display.





enables the new input value and stores it in the database.



cancels the input, the database keeps unchanged.



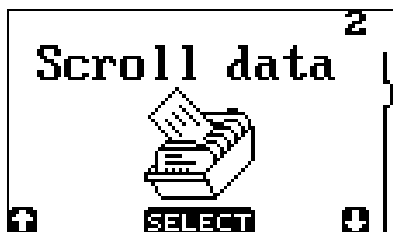
Before deleting the record this message appears. If the question is acknowledged . The record will be removed from the database, this action cannot be undone.

When  is pressed the record will not be deleted.

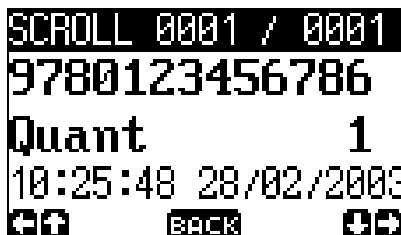
2.2 Scroll data









When no data is available the option select will result in a message that there is no data on the RAM disk.



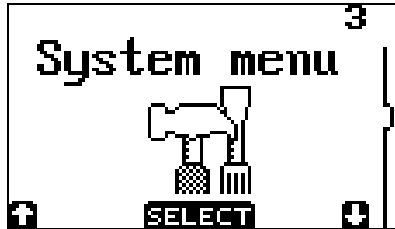
When selecting this menu item it is possible to scroll through the inputted data.



To navigate through the inputted data use the  and  keys. When pressing the  and  the first record in the database is displayed.  and  will display the last record of the database.

2.3 System menu

The System menu contains a submenu where special terminal options can be viewed or set. The navigation of this menu is the same as navigating the main menu.



The system menu consist of 8 items:

- (back)
- Barcodes
- Communicate
- Battery volt
- Memory
- Date / time
- Standby time
- Backlight



When the (back) menu item is selected the application returns to the main menu.



The barcode menu enables or disables barcode types that are supported by the OPL9728. More barcodes can be enabled at the same time.



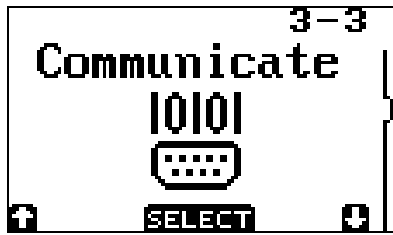
Checked = enabling barcode



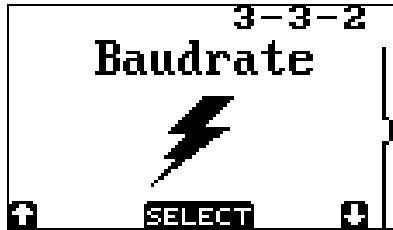
Unchecked = disabling barcode

Supported barcode types are:

- Code 39
 - EAN
 - UPC
 - Interleaved 2 of 5
 - Industrial 2 of 5
 - Codabar
 - Code 93
 - Code 128
 - MSI plessey
 - Telepen
 - UK plessey
 - IATA
 - Scode
 - Matrix 2of5
 - PDF417
 - MicroPDF417
 - RSS-14
 - RSS-Limited
 - RSS-Expanded
 - EAN•UCC 2D Composite Symbolologies
 - CC-A (MicroPDF417 based)
 - CC-B (MicroPDF417 based)
 - CC-C (PDF417 based)
 - All Addons
- By enabling all addons the addons for all supported barcode types are enabled.



With the communicate menu the baudrate and protocol can be set.



The baudrate menu enables or disables one baudrate.



Checked = baudrate enabled



Unchecked = baudrate disabled

By selecting a new baudrate the previous baudrate is disabled.



The protocol menu enables the protocol that will be used to send data. There are two protocols available. The No protocol sending data from the database as flat ascii. The NetO protocol sending data to the PC by the NetO protocol.

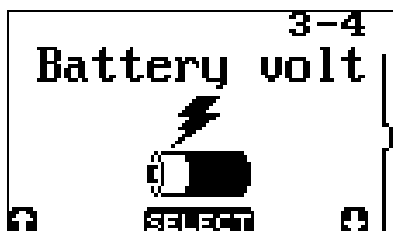


Checked = protocol enabled

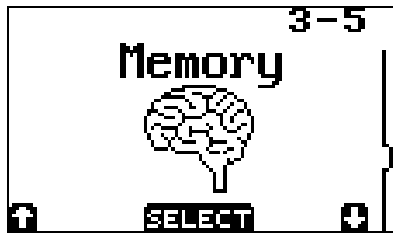


Unchecked = protocol disabled

By selecting a new protocol the previous selected protocol is disabled.



The battery voltage menu shows the current input voltage of the battery.



The memory menu shows the amount of free memory on the RAM disk.

When the message that the RAM disk is (almost) full appears then a small amount of memory is still free. The still available free memory is needed by data communication from the Send data menu.



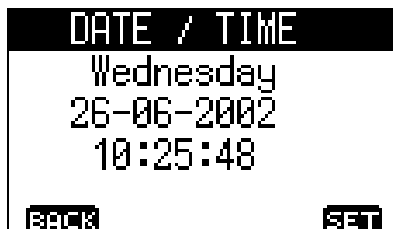
RAM disk is almost full, data is stored.





RAM disk is full, data is not stored.



The date / time menu item shows the current day, date and time.




Use button  (BACK) to return to the system menu.

Use button  (SET) to change the time and date.



Use button  and  to navigate.

Use  button to change the value where the cursor is positioned.

When the cursor is placed under the E of End the new time and date can be saved. If the newly entered time or date is not a correct value an error message is signaled.



Error in setting: Time or date

The new settings are not saved when the error message is signaled.



Selecting the standby time sets the time the terminal stays on when no key is pressed. When pressing one of the three keys will turn the terminal back on.



The backlight menu controls the way the OPL9728 uses the backlight.

The Backlight menu options are OFF, ON and AUTO. When the auto option is selected then when a key is pressed the backlight of the display will stay on for 10 seconds



Checked = selected backlight item



Unchecked = unselected backlight item

By selecting a new backlight item the previous selected item is unselected.

2.4 Delete data



When no data is available the option select will result in a message that there is no data on the RAM disk.





When selecting this menu item it is possible to delete the inputted data.



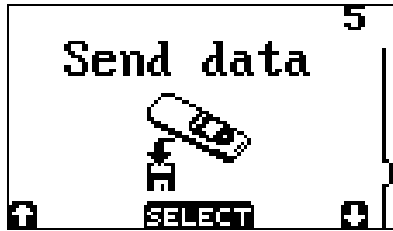
The default screen when delete data is selected and data is available. This screen will also appear when a successful send data (data transmission) occurs.

When cancel is selected the database is not removed from the RAM disk.



Use button  or  to switch between delete and cancel. When the delete option is selected the database is removed from the RAM disk and the application returns to the main menu.

2.5 Send data



By selecting the Send data menu the database if present can be transmitted to the PC. The protocol and baudrate as set in the communication menu are used.

The other communication parameters that can not be changed are:

Parity = None
Databits = 8
Stopbits = 1



When the transmit data message appears on the display put the OPL9728 in the cradle and then press a key. On the PC needs to run an application to receive the database.

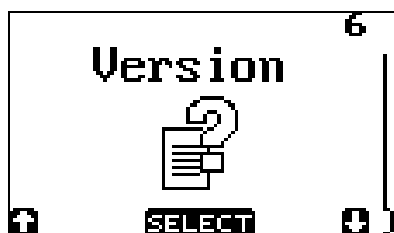
After a successful transmission a message appears to delete the database. See delete data for more information.



Transmission error during transfer protocol.

If this message appears transmission is interrupted. Then retry to transmit the database to the PC.

2.6 Version



Selection the version menu item the current software version is shown.



The software version of this application.

3. Data format

Each record is stored in a database file called DATA.TXT.

The fields in a record are:

<Barcode 200 characters right padded with spaces>
<Quantity 7 characters left padded with spaces, 6 numeric and 1 sign bit>
<Time stamp 8 characters format HH:MM:SS>
<Date stamp 10 characters format DD/MM/YYYY>

The fields in record are separated by a comma and all records end with a <CR><LF> character.

A Complete record looks like this:

<Barcode>,<Quantity>,<Time>,<Date><CR><LF>

The maximum amount of record that can be placed in this terminal is almost 6500 records.

4. Battery

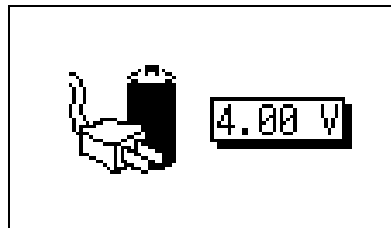
4.1. Battery charging



If the OPL9728 with the battery pack is placed in the cradle, the voltage and the required loading time is automatically determined.



During charging the OPL9728 shows one of the images on the left. Also the RED led on the terminal will emit.



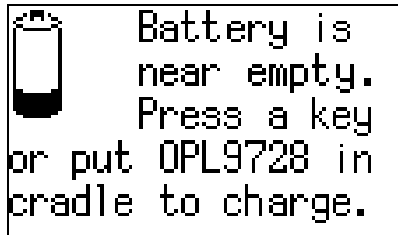
When the battery is fully charged the led will be GREEN and the image on the left will be shown. The voltage meter shows the voltage on the contacts of the battery.



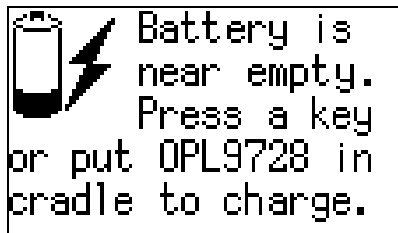
Note

- When sending data (transmission) battery will also be charged. The led will emit RED or GREEN, but the charging image is not displayed.
-

4.2. Battery near empty

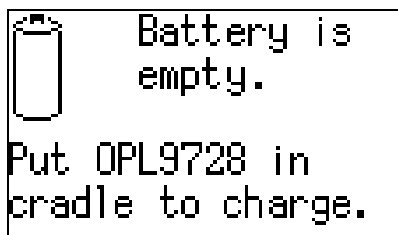


During operation a small amount of power is drained from the battery. When the battery detects that the battery is nearly empty, the near empty message is alerted.

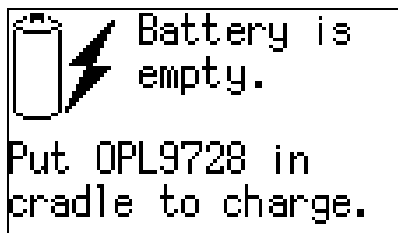


The OPL9728 can be placed on the cradle to recharge the battery pack or press a key to continue operation.

4.3. Battery empty



When already the battery near empty message has been alerted and operation was continued the battery empty message could be alerted. This message indicates that the battery needs to be recharged, it is not possible to continue operation without recharging the battery.



When the OPL9728 has been placed in the cradle the battery-charging image appears. When the OPL9728 is picked from the cradle and the battery is not charged enough the battery empty message is alerted again. Place the OPL9728 in the cradle to charge the battery further.

If the battery is enough charged after a battery empty message. The application will start from the scan labels in the main menu.