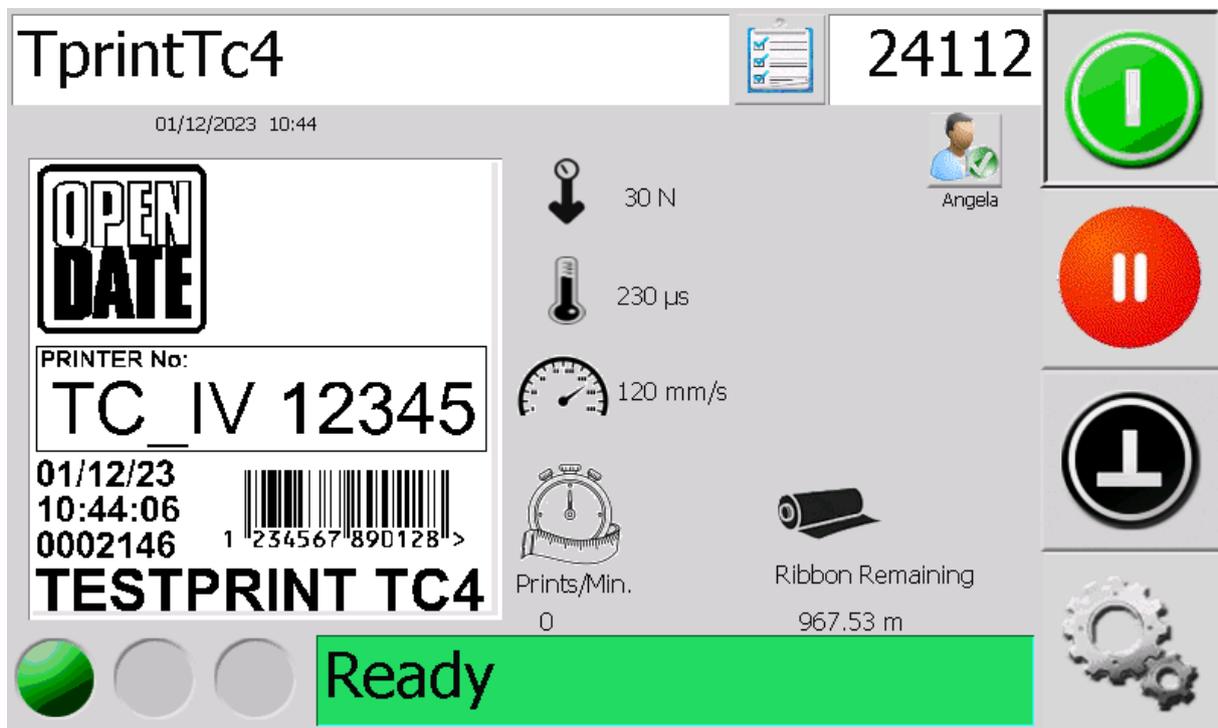




Thermocode Series 4 Touch Screen

Touch Screen and Software User instructions



There are three manuals covering the Thermocode Series 4 (TC4) printer system:

- 1 This manual covers the TC4 Touch Screen and Software operation instructions of the printer.
- 2 The TC4 Installation, Operation and Maintenance Manual covers, warranty and maintenance of the printer.
- 3 The Series 3 Power Supply Manual covers an overview of the components and connections of the power supply (PSU).

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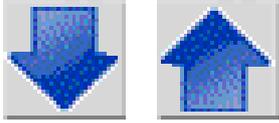
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This document covers all the features for a user with the highest login level. At the connected user level, certain access can be disabled

Main Buttons / Icons / Access

1.1 Basic buttons

To select, touch directly your choice

	Back Menu, go to previous screen		
	Save/Enter Validate values and leave the actual screen		Escape/Cancel /Off Leave the actual screen without saving
	Access to Edition		
	Increase/Decrease numerical value		Access to list/Combo box
	Default back to default values		back to factory values
	access to variables see the section: « Variables »		The Printer
	The USB stick		Delete/dustbin
	Select all		De-select all

1.2

the List box

With fixed choices:

Edit
Orientation
Parameters
Set Variables
Print Count
Save as ...
Delete

With variables choices:

05 CODE 39	Hom
08 EXTENDED CODE 39	^
11 CODE 93	
12 EXTENDED CODE 93	
06 CODE 128	
00 EAN 8	
01 EAN 13	
02 EAN 128	
03 UPC-A	
04 UPC-E	v
07 ITF CODES	End

Page Down /
Page Up

Hom

End

Go to 1st/Last position
in the list

^

v

Go Down/Up in the list



Actual position in the
list



Page down / Page up

1.3 the Keypad

Press on the numerical values and the keyboard will be activated

24112			
7	8	9	-
4	5	6	<
1	2	3	>
0	.	Del	OK

Del → backspace

OK → Validation the new number

- → to enter negative values on position 1

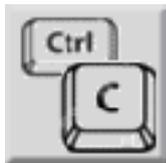
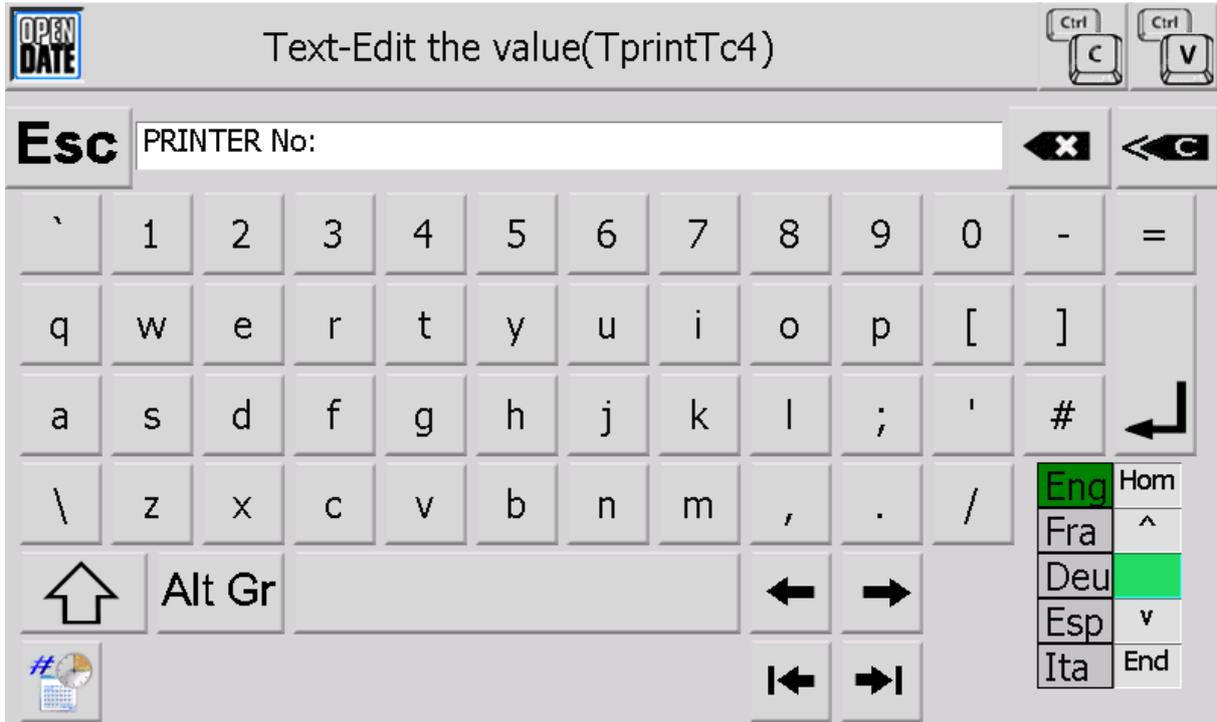
< → go left

> → go right

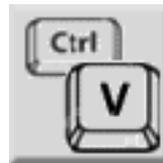
when click again on the original number → escape the keypad

1.4 the Keyboard

Click on alpha numerical values (for texts), and you will access the keyboard:



Copy



Paste



Escape



Backspace



Clear the line



Enter / Validation



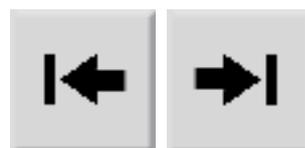
Shift: Uppercase keyboard



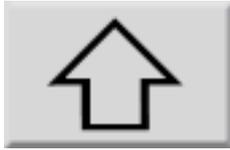
Alternative graphic keyboard



Left/Right positioning



Home/End positioning



Shift: Uppercase keyboard



Alternative graphic keyboard

The keyboard language list box:

Eng	Hom
Fra	^
Deu	
Esp	v
Ita	End

when selecting the language, the keyboard looks like the real country keyboard

- Eng → England
- Fra → France
- Deu → Germany
- Esp → Spain
- Ita → Italy
- Pol → Poland
- USA → America

1.5 Screen: Information

On most screens, if you touch the title string, it gives access to the information screen



Information - Printer version: TC IV

Open Date Equipment Ltd.
9 Puma Trade Park, Morden Road
Mitcham, Surrey, CR4 4DG. UK
+44 (0) 20 8655 4999
<https://www.opendate.com/>

05/12/2023 - 12:45:37
Meters Done: 240
Ram: 63.3 Mb (63307776 Bytes)

Firmware: 1.00.03 - TC4
Printer version: TC IV-53M
Printing length: 119.4mm
Serial number: AXW-12345
FPGA: 0xA0, Version: 1.4



Information provided here:

-Company: 4 lines and web site

the 4 lines can be customized through the system variables: CONTACTINFO

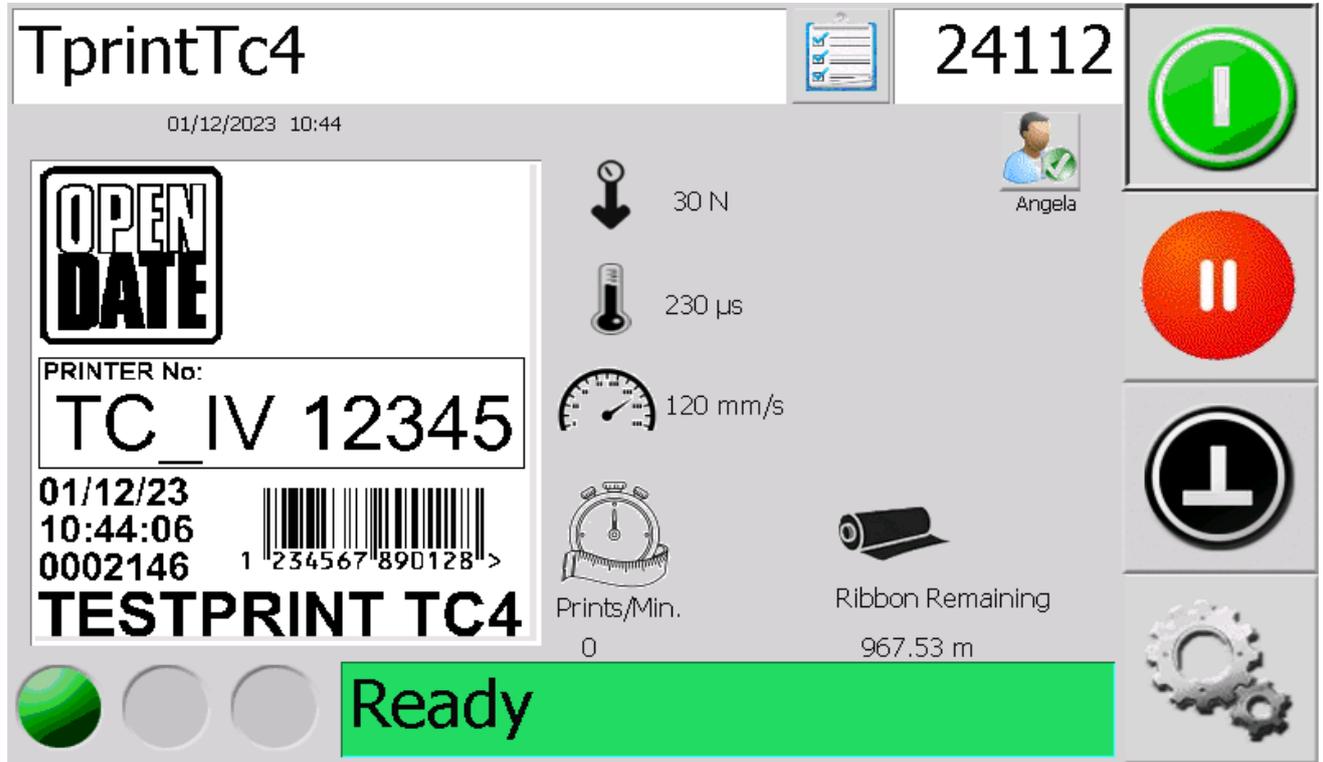
-system information:

date and time, printhead meters done, Ram-software information:
firmware version, printer used

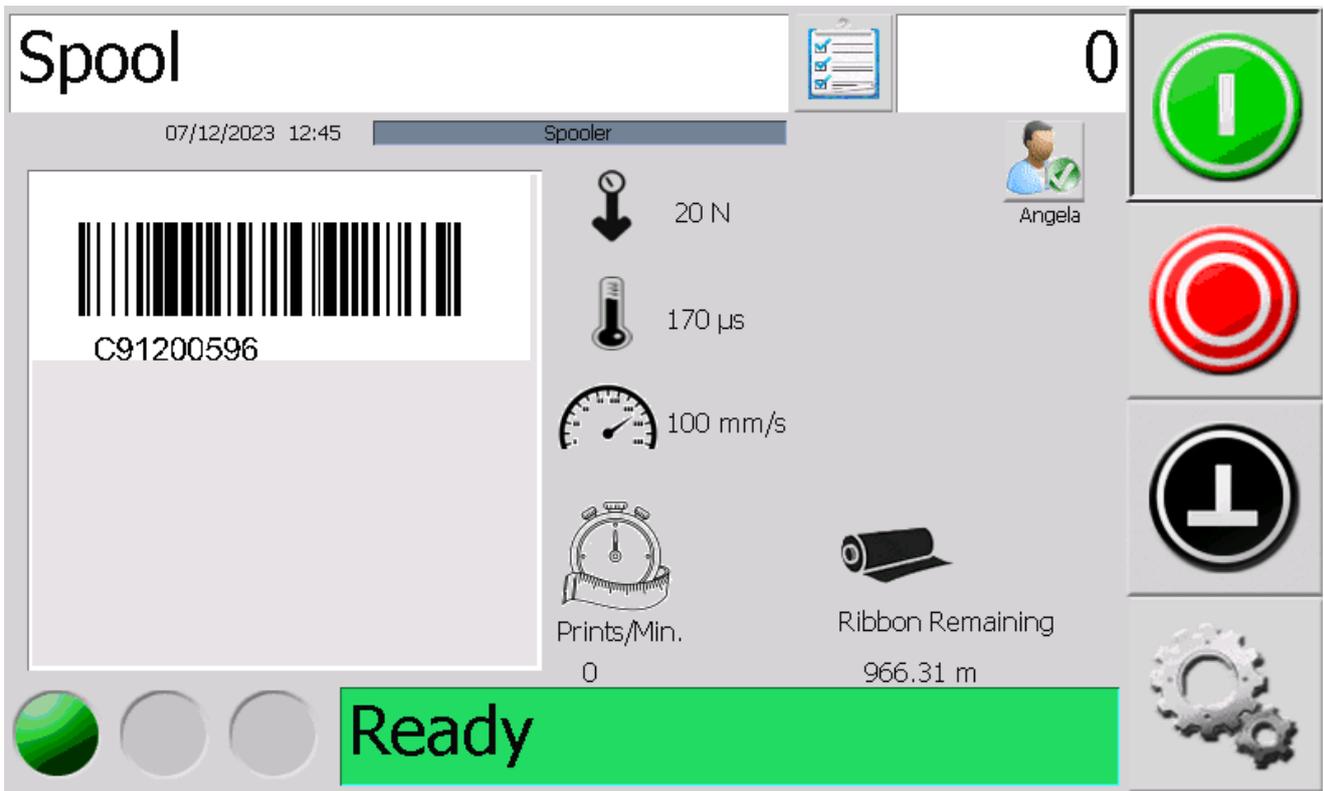
-printer information:

printhead width, printing length, serial number, FPGA version

2 Main Screen



With the Option of a “Spooler”, the main screen looks different:



see also: system variable DESKTOPPRINTER

This is the main screen of the Editor; the functions and descriptions are described as follows:

All following access in this chapter, from this screen, can be customized through the system variables:

MACRO1, MACRO2, MACRO3, MACRO4, MACRO5, MACRO6, MACRO7, MACRO8

2.1 All fields

2.1.1 Format Name

Displays the format description / name

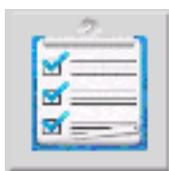
(In this example 'TprintTc4').

TprintTc4

touching this fields gives access to the screen: « Select a Format »

see also: system variable SYSMACRO1

2.1.2 Current variables

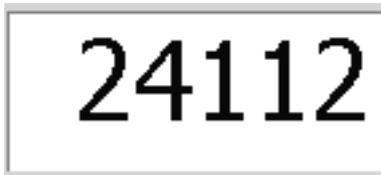


touching this button will give access to the screen: « Select a variable »

see the sections: « Selections from the main screen » and « Variables »

2.1.3 Product Counter

Displays the total number of prints. This counter can be zeroed or set to any six-digit number.



Touching this field gives access to the numerical keypad to change this value

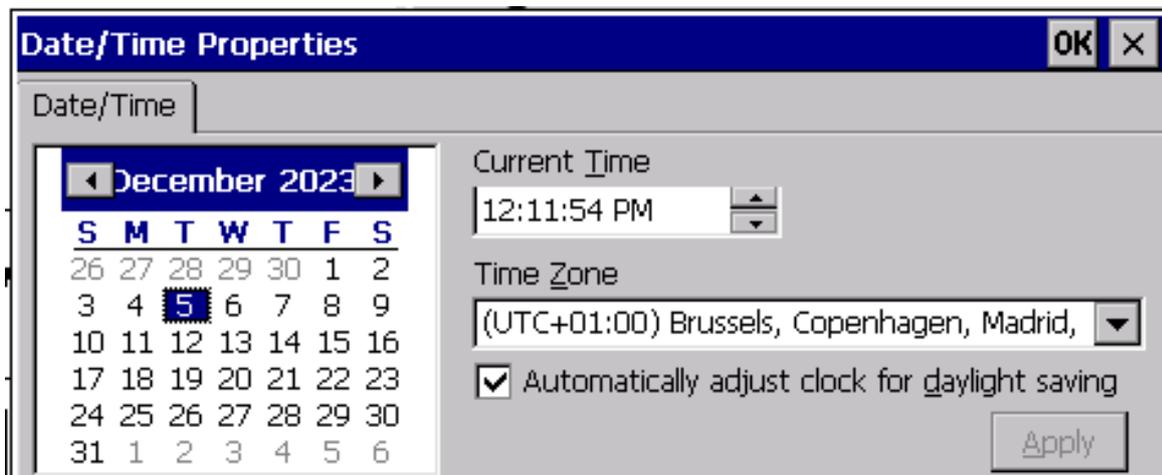


2.1.4 Current Date/Time

01/12/2023 10:16

Touching this field gives access to the Windows CE system screen for Time and Date
Use an appropriate stylus to go to Date/Time properties

see also: system variable: SYSMACRO5



2.1.5 Preview



Format Image Window

Preview of the actual format layout.

Touching this image gives access to the Format Edition functionality

see also: system variable SYSMACRO2

see also: section "Format Edition"

2.1.6 Format settings

Touching these following buttons gives access to edit the format settings

see also: system variable SYSMACRO3

2.1.6.1 Pressure (in Newton)



2.1.6.2 Burning time, or Temperature, in microseconds (ms)



2.1.6.3 Speed (in millimetres per second)



2.1.7 Other Settings

2.1.7.1 Prints Per Minute

The counter displaying prints per minute. Please note that this counter will update only once per minute.



2.1.7.2 Ribbon remaining (in meters)



Displays the remaining ribbon left on the magazine.

Touching this button gives access to all ribbon settings
(This value is only correct if you zero the counter after each ribbon change)

see also system variable: SYSMACRO4

2.1.8 User login



Touching this Button gives access to the Login screen
Connection without password gives access to the minimum functionalities

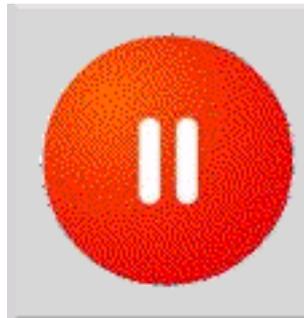
see also: the section "Users"

see also: system variable SYSMACRO8

2.1.9 Main icons (Right part)



Access to printer
"Online"; disable
"Pause printing"



Access to printer
"Offline"; enable
"Pause printing"



Trigger a single print



Access to the main
menu
see the section: « Main
Menu »

see also: system variable SYSMACRO7

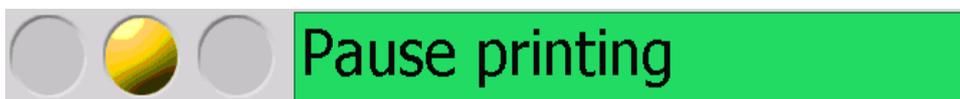
2.1.10 Printer status

On the bottom side of the Main Screen, you will see the Status Window.

Information is displayed in two areas. Optical (Colour green, yellow and red) and text (Ready, Offline or Fault).



If the optical status is green and in the text note is 'Ready', the printer is booted up and in the operating mode.



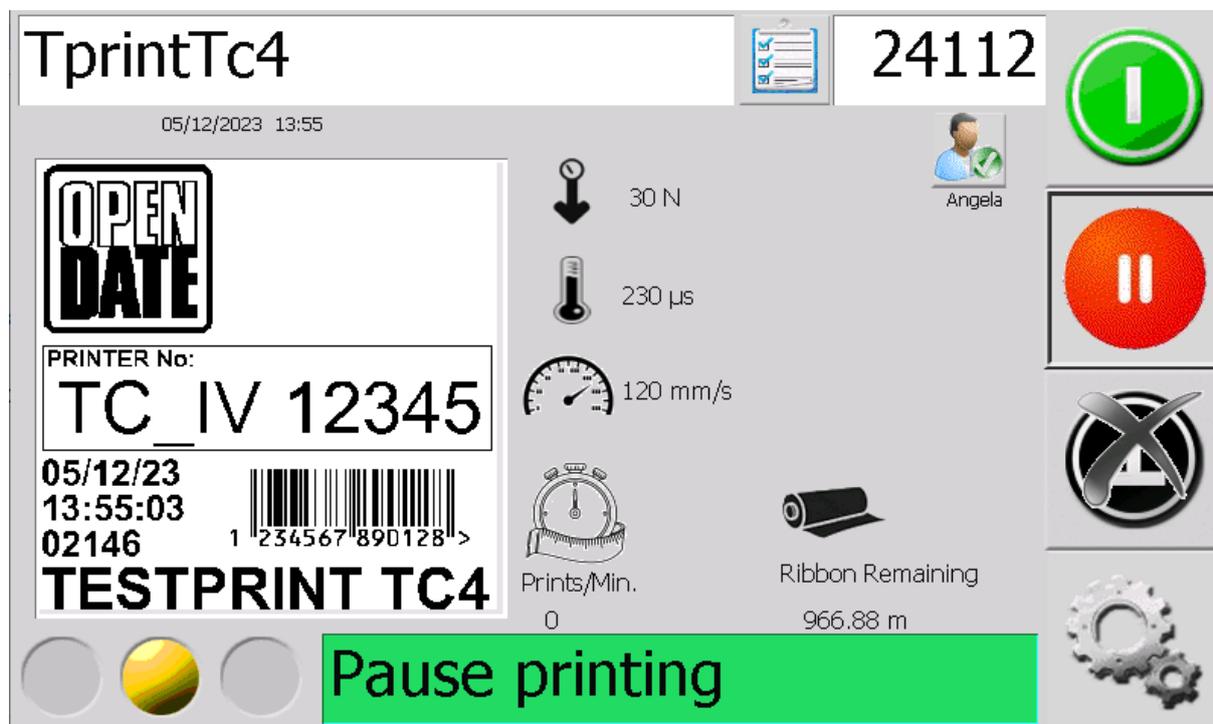
If the optical status yellow and in the text note is 'Pause printing', the printer booted up but not in the operating mode. (There is no fault with the printer)



If the optical status is red, you will see a fault message in the text note (in this example, Magazine open). When the fault is cancelled/cleared, the printer will switch automatically to 'Ready'.

2.1.11 Special Options

2.1.11.1 Status: Pause printing



See also: Escape command CC and CR

2.1.11.2 Option spooler

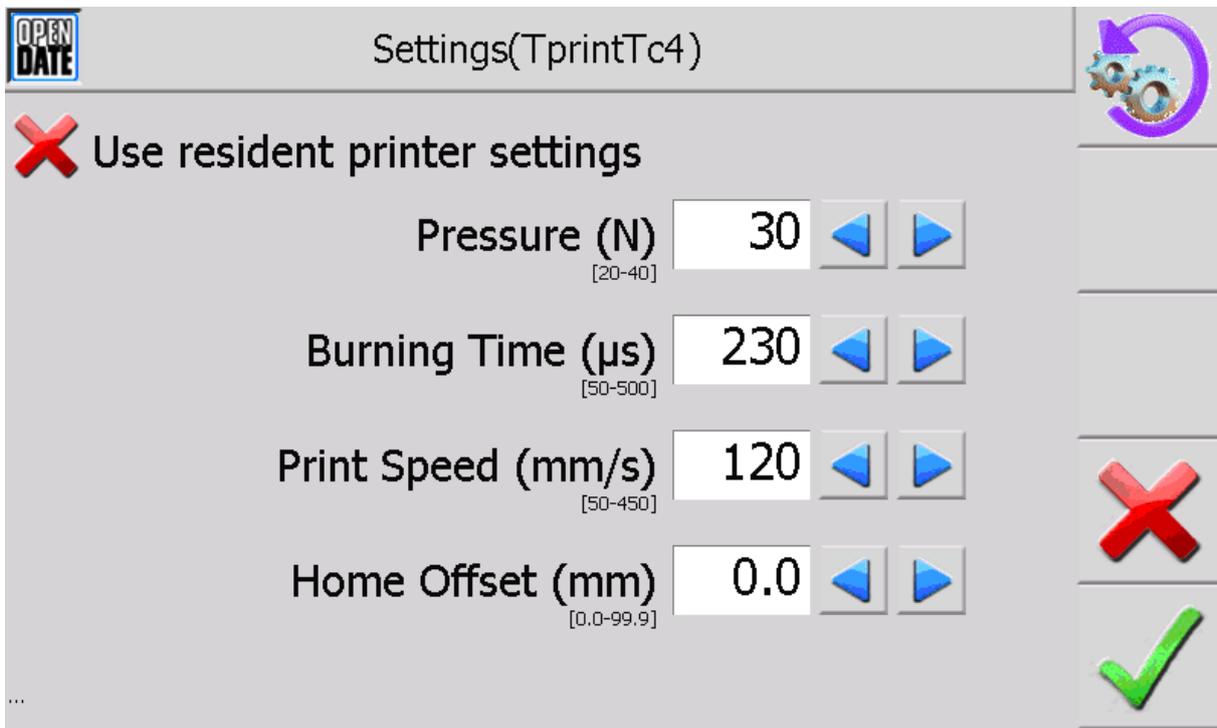


The printer can be used as a desktop printer, to store in a queue a big quantity of formats
see also: system variable DESKTOPPRINTER

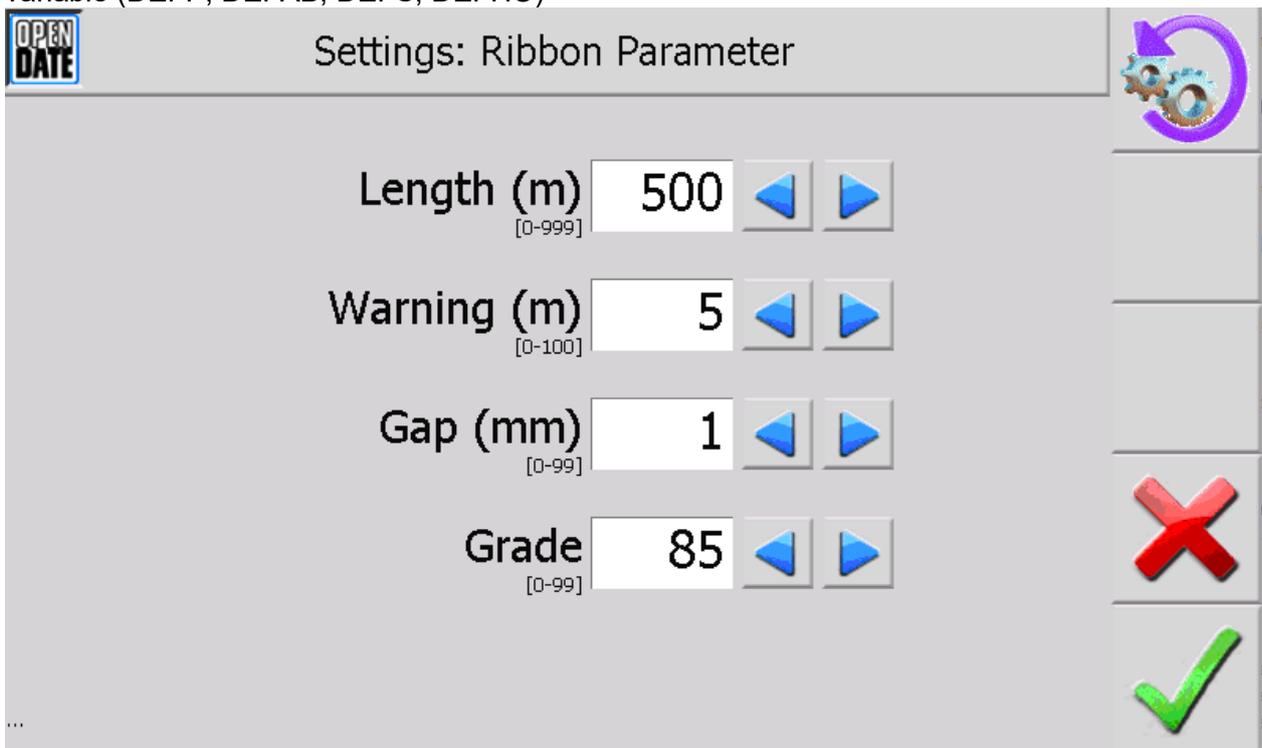
see also: the section « Spooler »

2.1.12 Edit the Settings

2.1.12.1 Edit the Format settings



When “Use residents printer settings” is ON, all settings come from the printer system variable (DEFP, DEFAB, DEFS, DEFHO)



2.1.12.2 Edit the Ribbon settings

The window ‘Length (m)’ is used to enter the ribbon reel length.

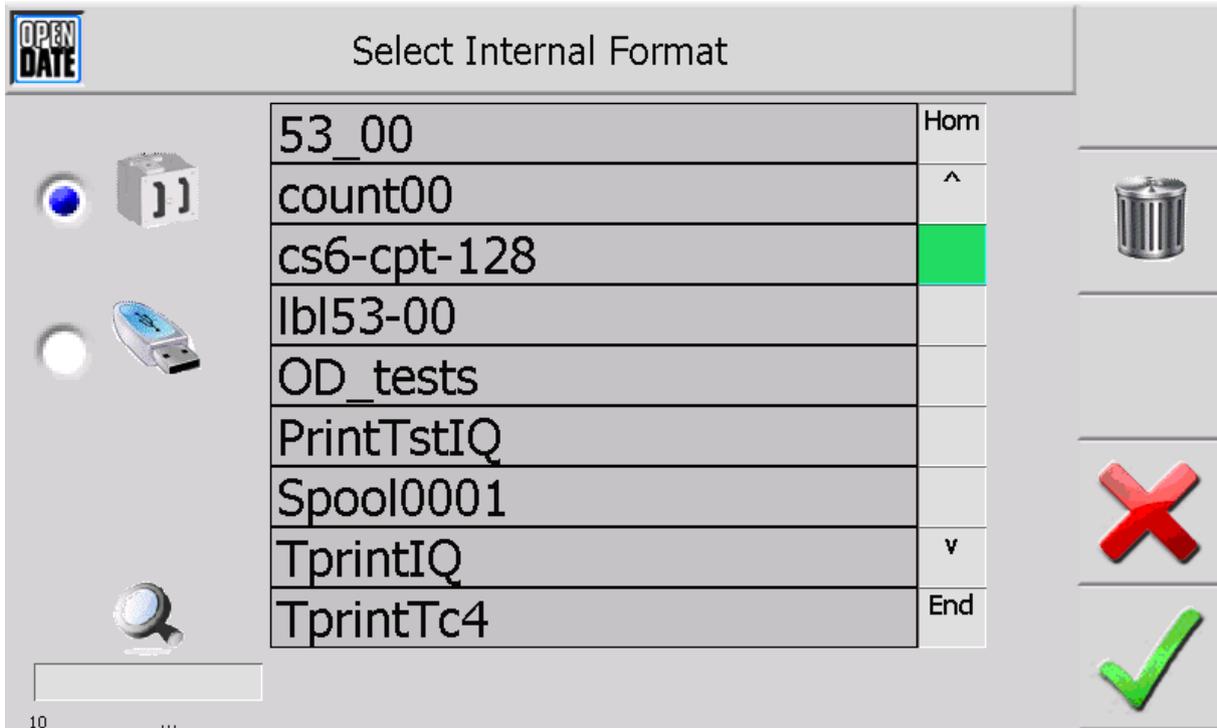
The window ‘Warning (m)’ is used to enter the desired remaining length of ribbon for an ‘end of ribbon warning’.

The window ‘Gap (mm)’ is used to set the amount of how many mm the ribbon should be pulled more than the length of the printed image.

The window ‘Grade’ is used to adjust for higher melting point ribbons. The default value for a wax / resin film 85 and a resin film 110.

3 Selections from the main screen

3.1 Select a Format

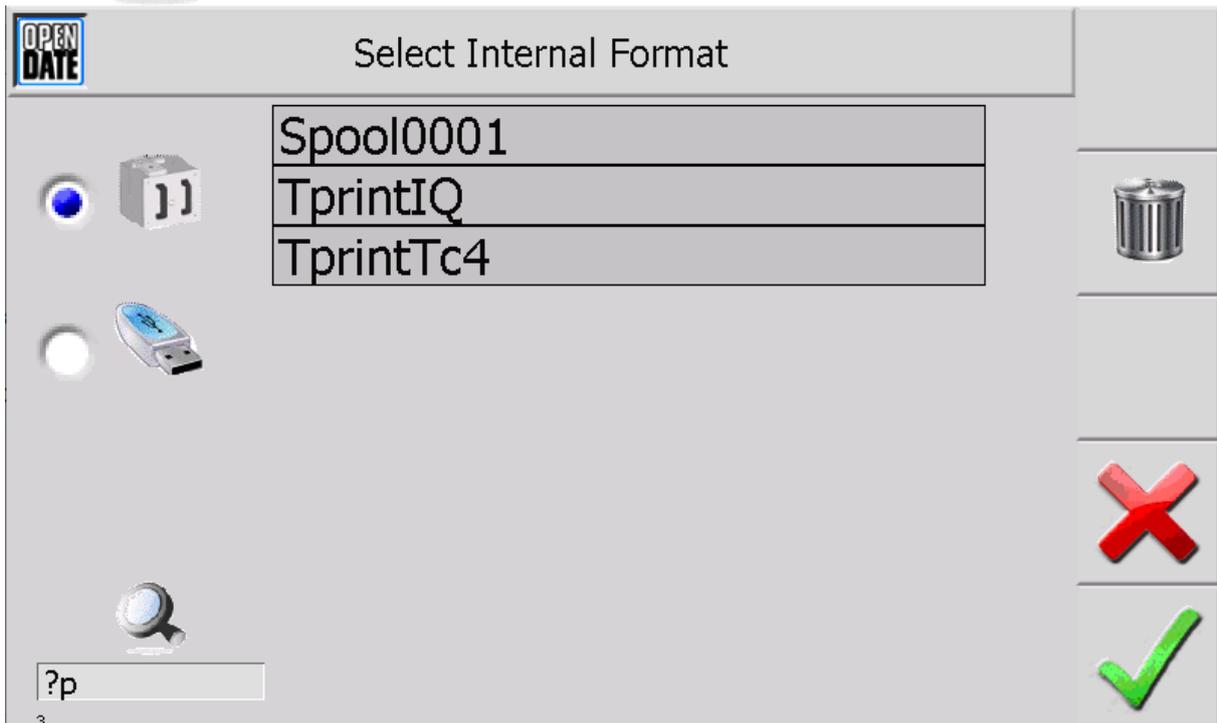


see also: system variable SYSMACRO1

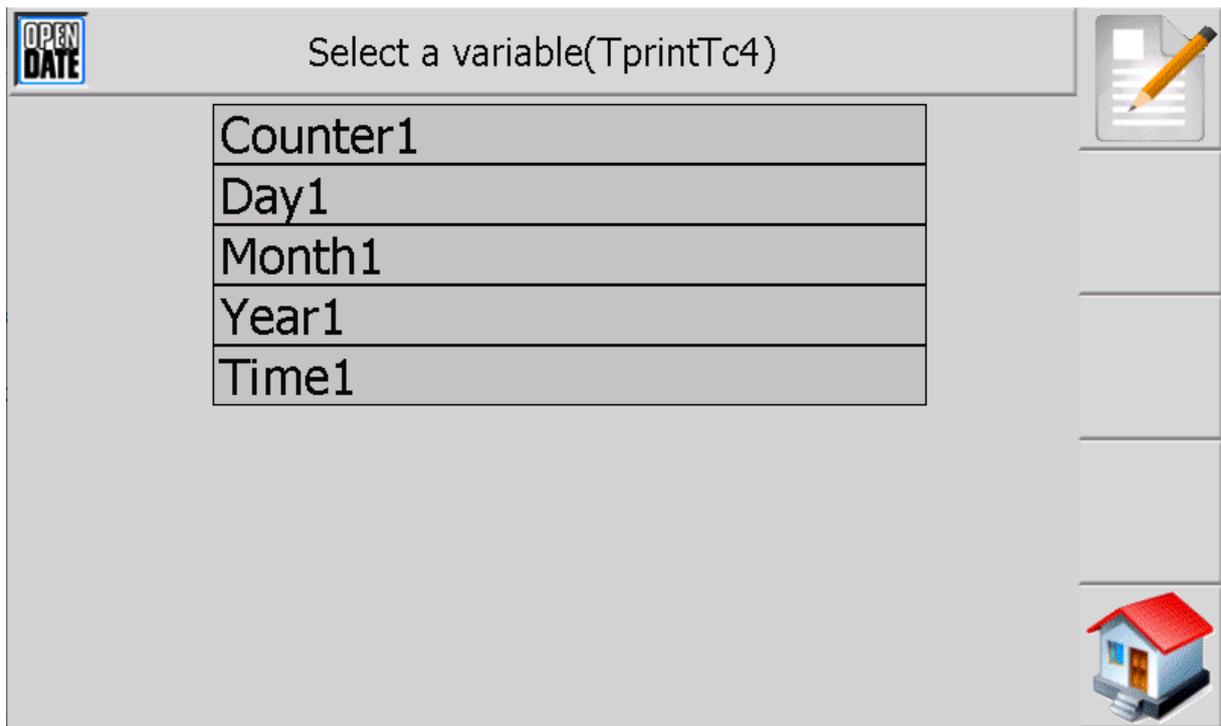
select the source (the Printer or USB) to display the list of formats in memory



Help to select a format. Useful when lots of formats use '?' for unknown characters



3.2 Select a Variable



Select the variable to change/edit the value
see also: the section "Variables"

4 Main menu

Access with this icon



Menu for the current format



Menu for the printer



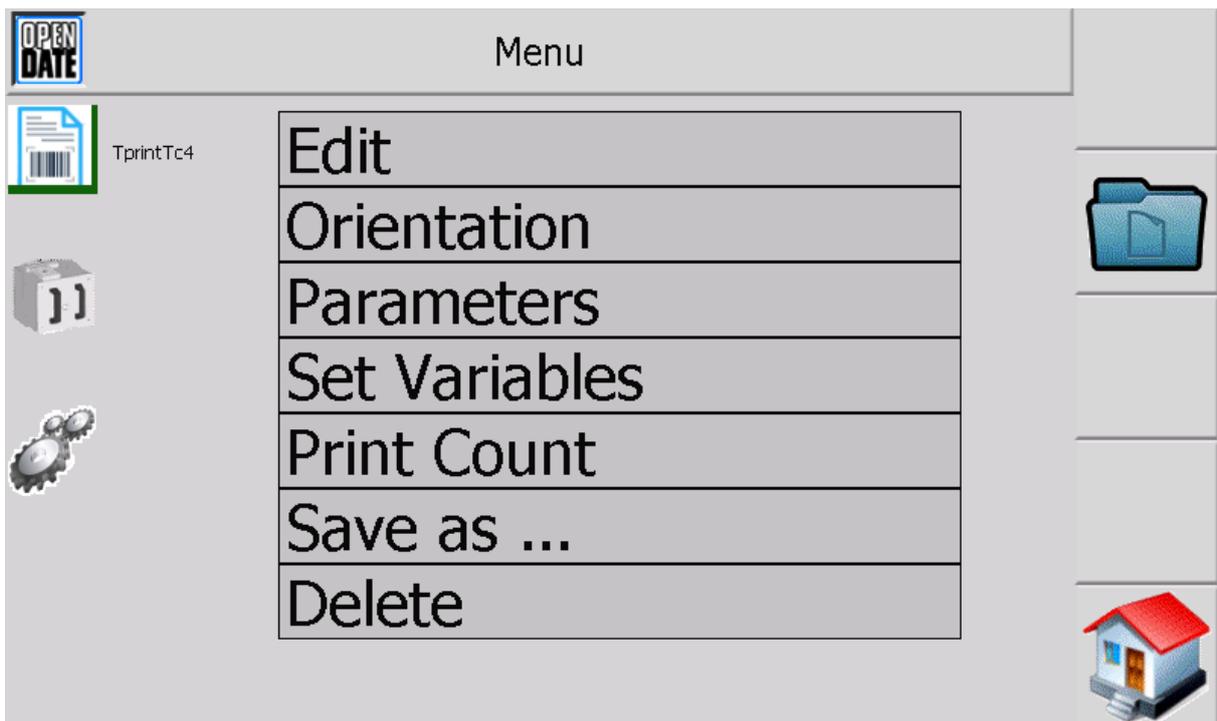
Menu for all settings



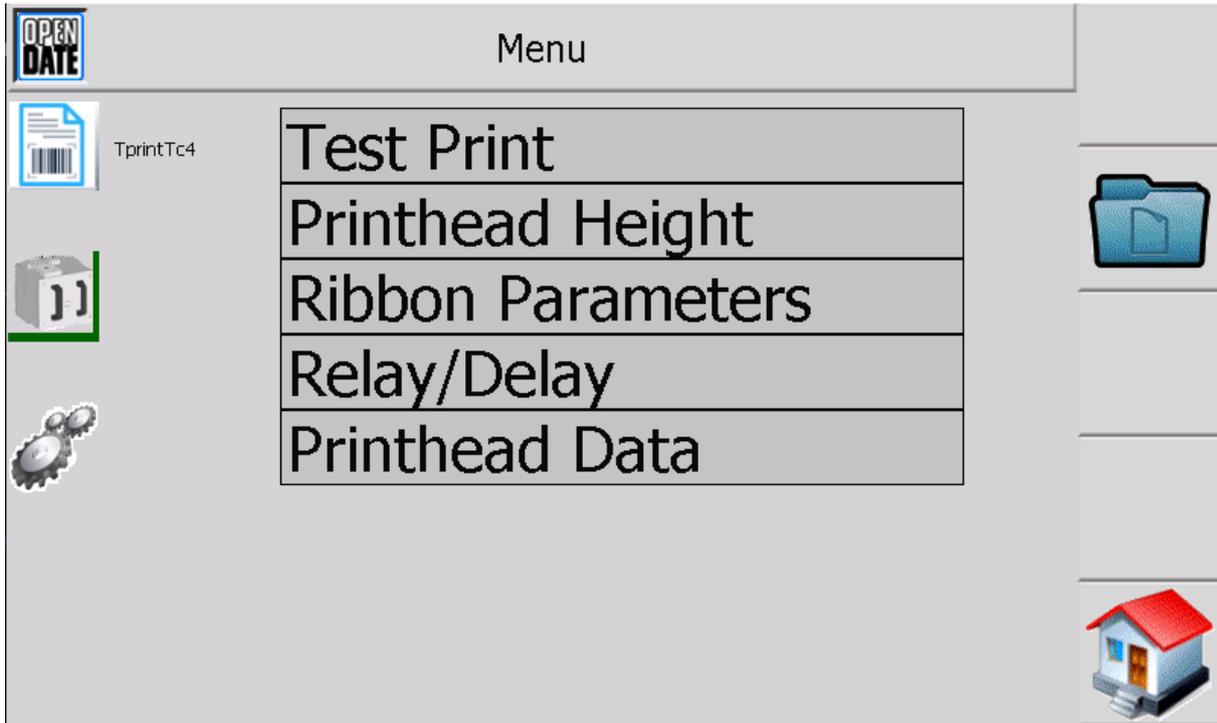
Access to Files management

4.1 Overview

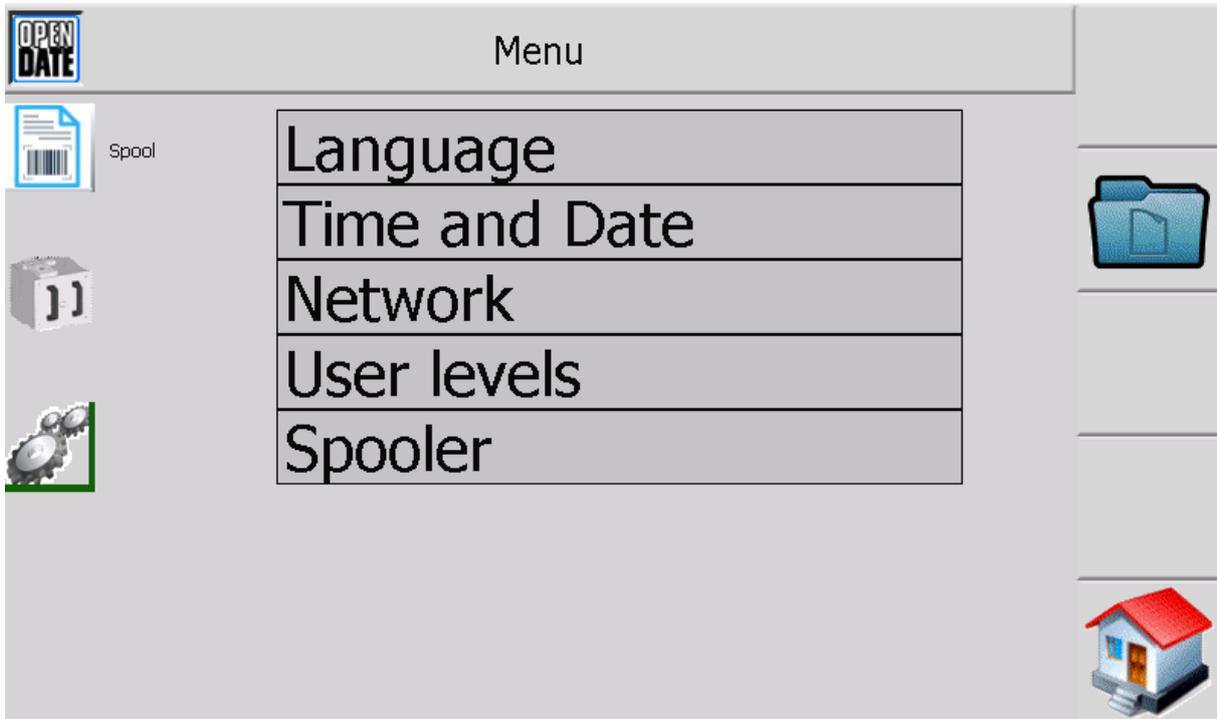
4.1.1 Menu « Current Format »



4.1.2 Menu « Printer settings »



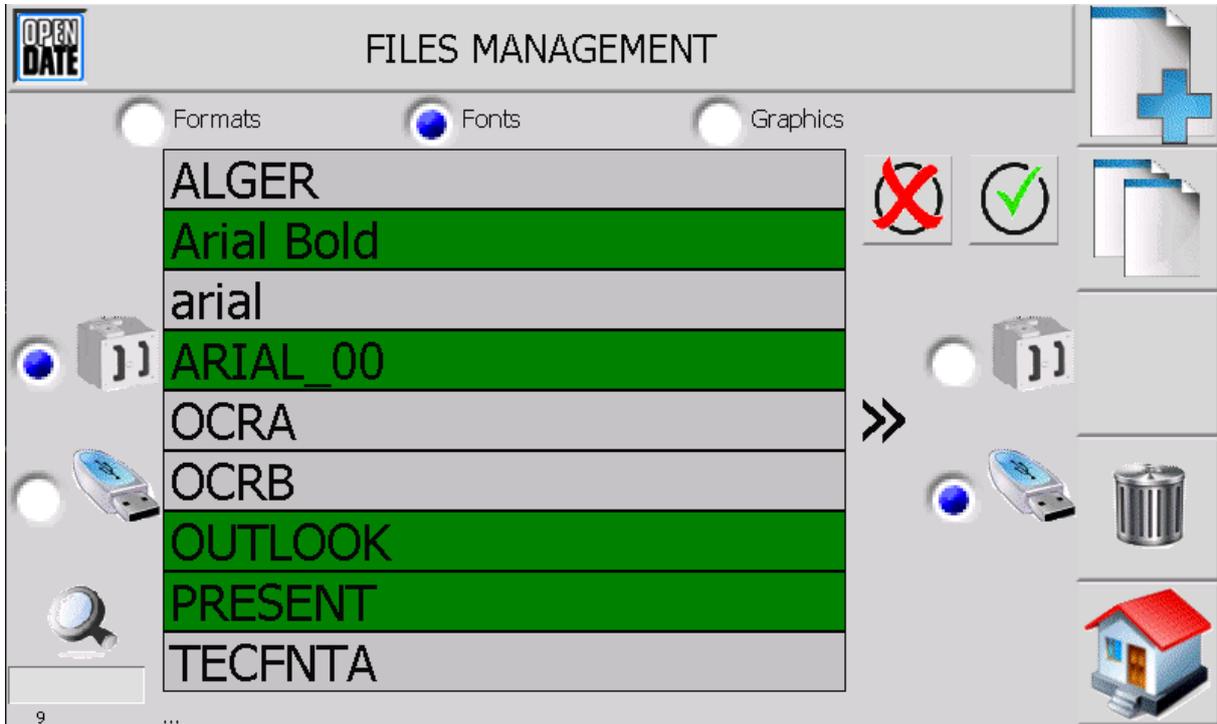
4.1.3 Menu « General Settings »



4.2 Details: « Files management »

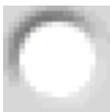


Access to Files management



With this tool, it's possible to:

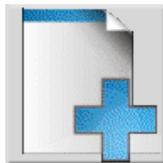
- Copy/Delete some files (fonts, graphics, labels) from/to the printer/USB stick
- Create a new format



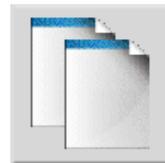
Radio buttons for Objects, Source and Destination

Possible objects: Formats, Fonts or Graphics

Possible Source/Destination: Printer or USB stick



Create a new format



Action on current objects: COPY



Action on current objects: DELETE

To transfer files using a USB stick, some rules must be respected. the directory names for:

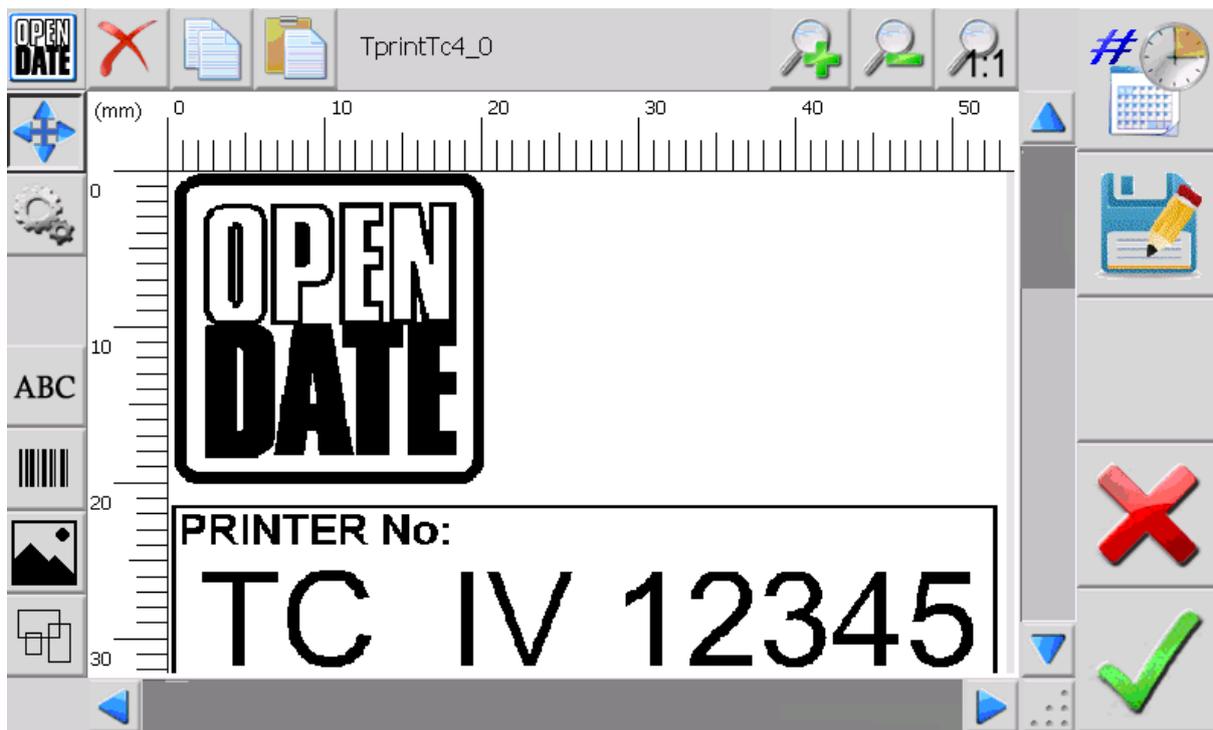
- Formats: \Labels
- Fonts: \Fonts
- Graphics: \Graphics

for Fonts: you can find Windows fonts in: C:\Windows\Fonts
 fonts used are TTF (.tiff extension)

note that the sub "Windows directory" attribute for fonts is Real only/hidden/System

4.3 Details: « Current Format »

4.3.1 Edit a Format



Delete current field



Copy a field



Paste a field
(then select the new destination to place the object)



Zoom in



Zoom out



Display resize to printhead width

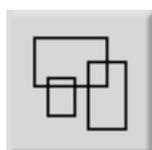


Modify the current field selected



Create a new text field

Create a Barcode field



Create a box/line field



Create a new graphic field

Function: Save as...

4.3.1.1 Field: Texts

To add more Fonts, refer to the section “Files management”

4.3.1.2 Field: Graphics

The internal label graphics name starts with '@'

External graphics are:

- monochrome Bitmap
- .bmp file extension

to insert an external graphic, refer to the section “Files management”

4.3.1.3 Field: Boxes and lines

Box(TprintTc4_0)	
X Position (mm)	0.2
Y Position (mm)	21.3
Horizontal Length (mm)	52.5
Vertical Width (mm)	12.5
Horiz Line Thickness	3
Vert Line Thickness	3




4.3.1.4 Field: Barcode

4.3.1.4.1 1D barcodes

All 1D barcodes:

EAN8	EAN_13
EAN 128	UPC-A
UPC-E	CODE 39
CODE 128	ITF CODES
EXTENDED CODE 39	CODABAR
MSI	CODE 93
EXTENDED CODE 93	UCC - 128
HIBC	
UPCE (6, SYSTEM 0)	UPCE (6, SYSTEM 1)

OPEN DATE Barcode(TprintTc4_0)

Text 123456789012

X Position (mm) 24.5 Orientation 0° 90° 180° 270°

Y Position (mm) 35.9

Height (mm) 6.7 Ratio 3:1 2.5:1 2:1

Bar Width 3

Human Readable Checksum

Barcode 01 EAN 13

Default

4.3.1.4.2 2D barcodes

All barcodes:

Data matrix

QR-Code

OPEN DATE DATAMATRIX(TprintTc4_0)

Text 123456789012

X Position (mm) 24.5 Orientation 0° 90° 180° 270°

Y Position (mm) 35.9

Automatic size Mirror

Border Size 1

Dots Multiplier 10

Character set 3 A..Z 1..9 .,-(500c)

ECC 13 200

Barcode 20 DATAMATRIX

Default

OPEN DATE QR CODE(TprintTc4_0) **GS1**

Text

X Position (mm) Orientation 0° 90° 180° 270°

Y Position (mm)

Element width (dots) Model

ECC Start mode

Barcode



Wizard for GS1.
See also: the section «Special option: GS1»)

4.3.1.4.3 Special option: GS1

See "<https://www.gs1uk.org/>" for details.
This part helps to create a barcode GS1

barcodes that can generate a GS1:

- Data matrix
- QR-Code
- Ean 128

all choices:

00 SSCC	Hom
01 GTIN	^
02 GTIN contain.	
10 Batch/Lot	
11 Prod.date	v
12 Due Date	End

Left part Identifiers (ID):
ID available for the GS1 barcode to create. All ID are not provided, see the list below.
Select all ID to include in the final GS1 barcode

Right part ID: ID used into the GS1 barcode generated.
When select one ID, the bottom part is ready to be filled: « Fixed text », or « Variable » (value comes from a variable)



This icon places all ID selected into the right part



Cancel a bad choice on ID

Serial number [20x] Rules for the current ID
 [20x] =20 alphanumerical
 [6] =6 numerical

Left part Identifiers provided with this wizard with sizes:

00 – "SSCC"	[18]
01 – "GTIN"	[14]
02 - "GTIN contain."	[14]
10 – "Batch/Lot"	[20x]
11 - "Production date (YYMMDD)"	YYMMDD [6]
12 - "Due Date (YYMMDD)"	YYMMDD [6]
13 – "Pack date"	YYMMDD [6]
15 - "Best before"	YYMMDD [6]
17 – "Exp.date"	YYMMDD [6]
20 - "Internal product variant"	[2]
21 - "Serial number"	[20x]
22 - "Consumer product variant"	[20x]
30 - "Variable count of items"	[8]

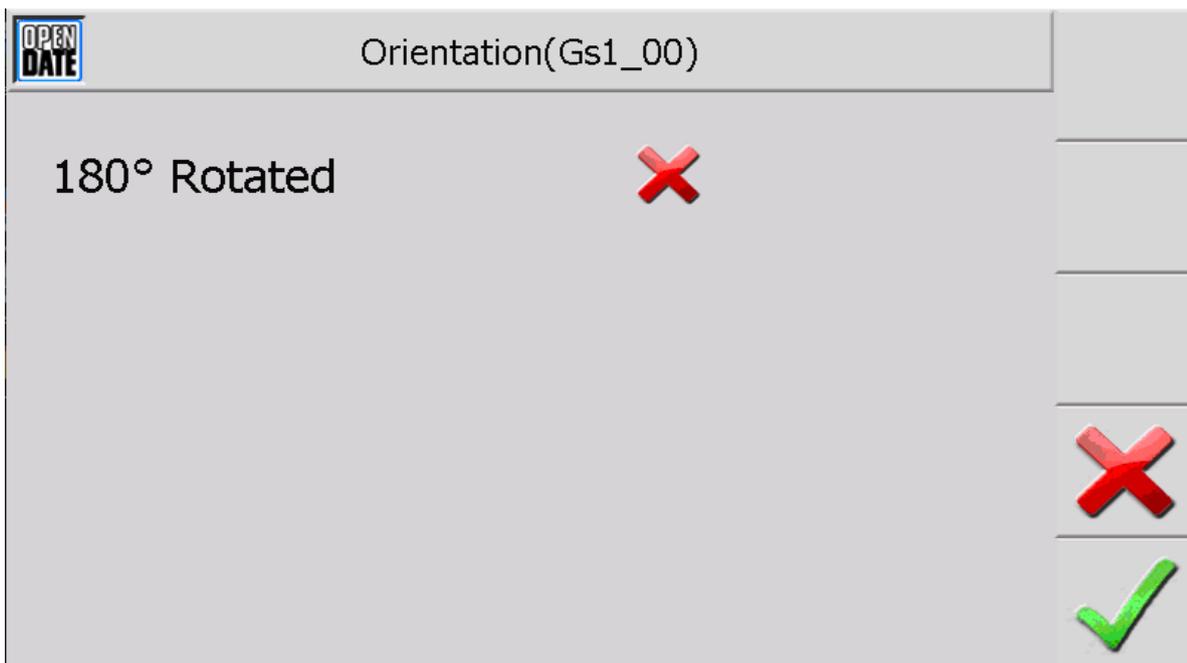
(can be improved)

the wizard generates automatically the details for the barcode Escape command.

ex:

```
{FNC1}01«gtin»10«lot»{GS}11«yymmdd»13«yymmdd»15«bestbefore»17«ExpDate»21«serial»{GS}
```

4.3.2 Orientation



With the '180° rotation window', you can rotate the current format through 180°. This setting applies for all formats.

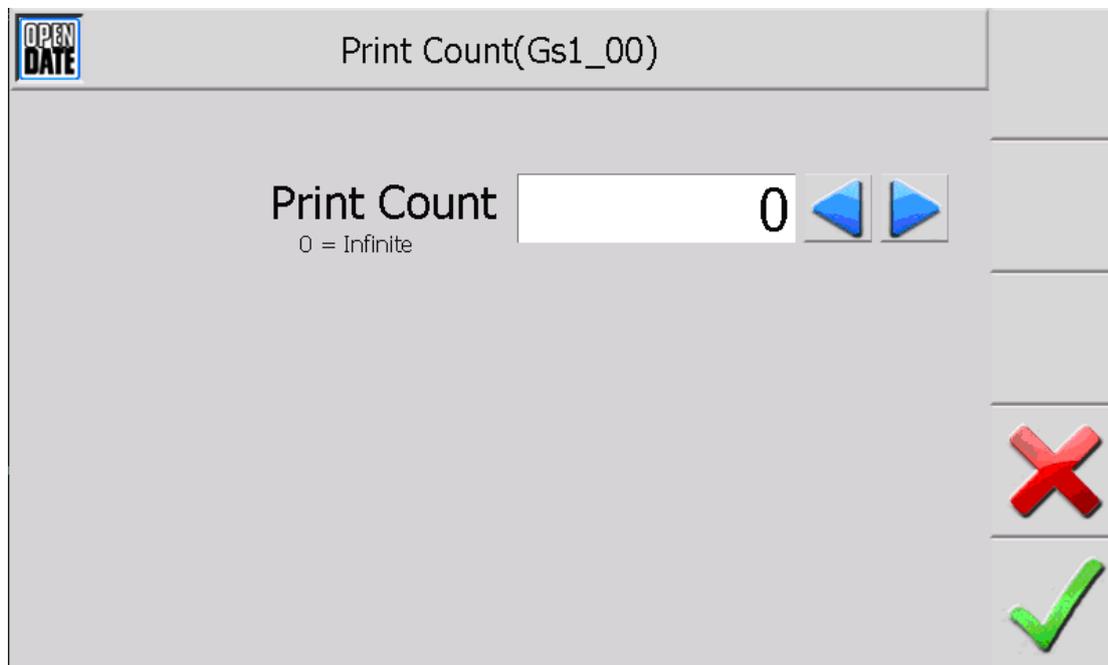
4.3.3 Parameters

See the section «Edit the settings»

4.3.4 Set Variables

See the section «Select a Variable»

4.3.5 Print Count



Set the print quantity for the current label.

This value is saved inside the format, in the escape command Q : « <ESC> 0 Q ... »

ex :

```
<ESC>0Fcount00
<ESC>0PSPEED 0250
<ESC>0PBURN1 0300
<ESC>0PBURN2 0300
<ESC>0PPRESSURE 20
<ESC>0PHOMOFF 00.0
<ESC>0PROTATE 0
<ESC>0EVCount0 4001,1,1,1,999,140
<ESC>0TArial 0182006709000qwertyu
<ESC>0TArial 0035026609000UY2GU32NVS50003GNSNS6
<ESC>0TArial 0256012709000cnt:<< VCount0 >>
<ESC>0Q000000
<ESC>0K
```

0 = infinite printing

4.3.6 Save as ...

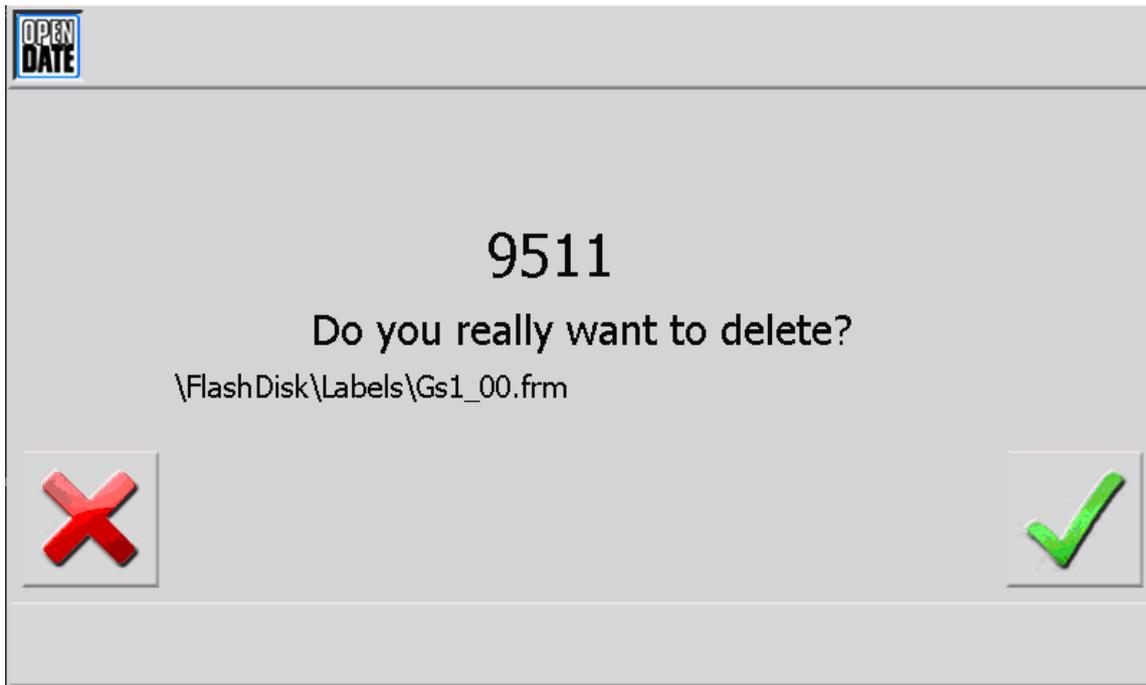
Save the actual format with a new name.

Same functionality with the icon « Save as » in Format edition



4.3.7 Delete

Erase the current format from the memory



4.4 Details: « Printer Settings »

4.4.1 Test Print



As well as appearing on the main screen of the Editor the 'Test Print' screen displays the format name, product counter, the prints per minute, the remaining amount of ribbon and a preview of the current format.



Generate a «continuous printing»



Takes the printer offline and stops printing.

On « Test Print », no access to Format edition

4.4.2 Printhead Height

Settings: Printhead Height

OPEN DATE

Printhead Height (mm) 5.00 [0.16-9.99]

Red X button

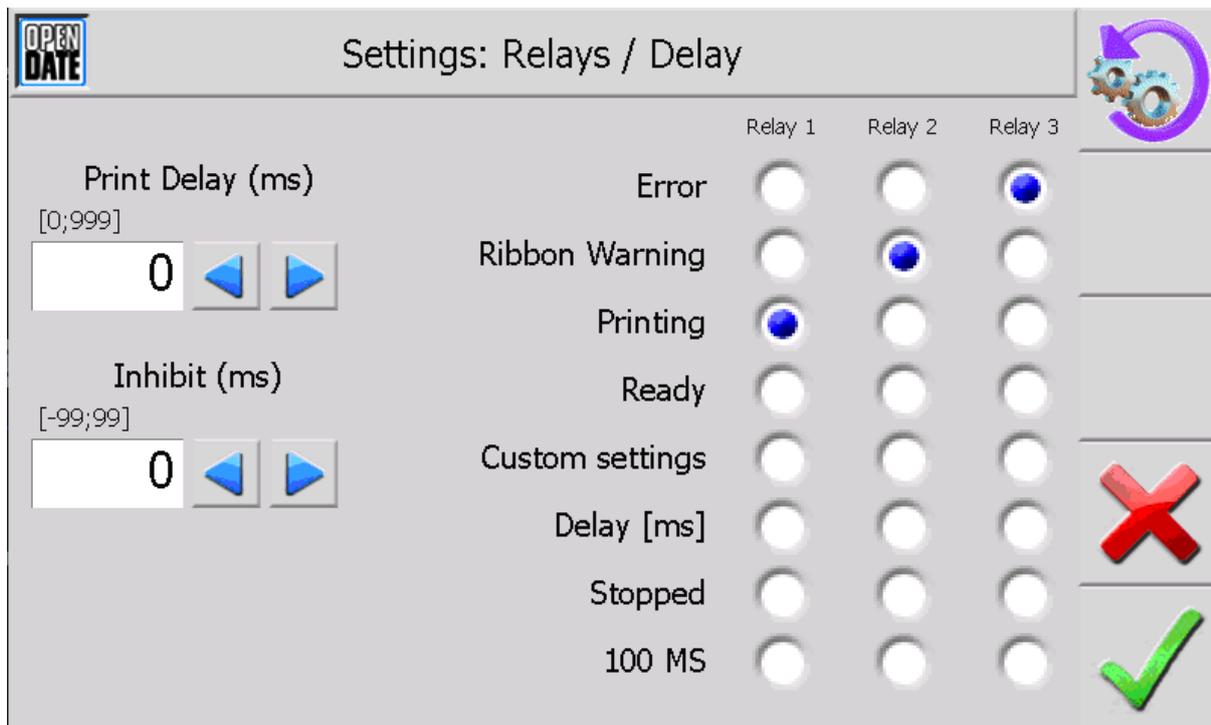
Green checkmark button

Vertical position of the printhead to the origin

4.4.3 Ribbon Parameters

See the section: « Edit the ribbon settings »

4.4.4 Relays / Delay



In the line 'Print Delay (ms)' a value can be entered in milliseconds. This is the time delay before the printer prints, after the print signal is received.

In the line 'Inhibit (ms)' value is entered, after how many ms after the start of printing, the printer turns off the relay. When printing starts, the relay switches.

In the Power Supply there are 3 relays. The function of the individual relays can be set.

The relay settings are displayed in 3 columns "Relay 1, Relay 2 and Relay 3. The blue dot in the white boxes indicate the current setting for the relay. To change the setting, touch the desired field. The blue dot will then appear in the selected field.

Error: An error is present at the printing system. This is indicated by the red optical and status message in the Status Window.

Warning foil: This relay switches on when the preset length is reached foil warning. To adjust the preset length

Printing: The relay is switched on during the printing process.

Ready: The relay switches when the printer is 'Ready to Print'.

Custom settings: not available on this version

Delay (ms): The print signal is delayed by a few milliseconds.

Stopped: The relay switches when the printer is offline, or fault is detected.

100 MS: the relay switches for a delay of 100 milliseconds after printing

4.4.5 Printhead Data

Settings: Printhead Data

OPEN DATE

Printhead ID:

843G803D6YZ7770GGDDY3

Meters: 568m

Installation: 31/10/2023

Operating Hours: 18h

...

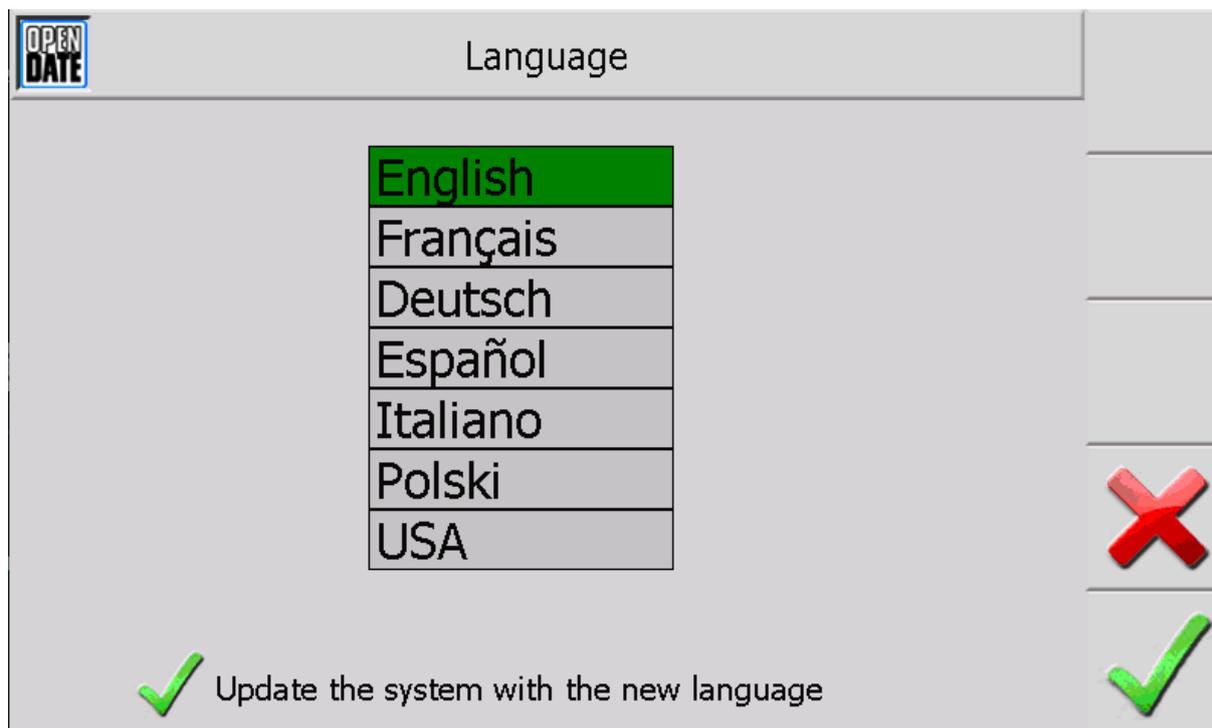
...

In this window, the print head ID of the new print head can be entered. This value is provided with your printhead from Open Date. This crypted value integrates the printhead width, the Resistor and the printer Serial number. A wrong value will damage the printhead. The Warning is « Print quality and print head life affected »

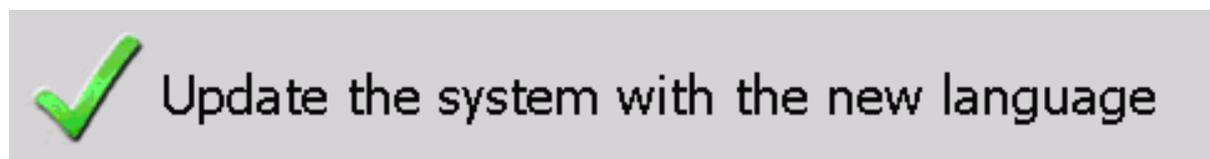
To access this modification, you need an Open Date worker password («OD Staff » password)

4.5 Details « General Settings »

4.5.1 Language



After selecting the language, all screens will be translated.



With this option, all system strings with references to the language will be automatically translated. Variables affected :

- Dates with months
- Dates with days

see also : the section « Variables Dates »

4.5.2 Time and Date

See the section « Current Date/Time »

Network

OPEN DATE

DHCP 

IP Address 192 . 168 . 1 . 150

SubNet Mask 255 . 255 . 255 . 0 

Gateway 192 . 168 . 1 . 254 

...

Enter the good network values to get a TcpIP connection with your network

4.5.4 User levels

In this part, it is possible to create/modify/delete a user connected to the printer. Starting the printer without User/Password gives a basic connection with few functionalities.

User levels

OPEN DATE

Create

Modify

Show/Delete

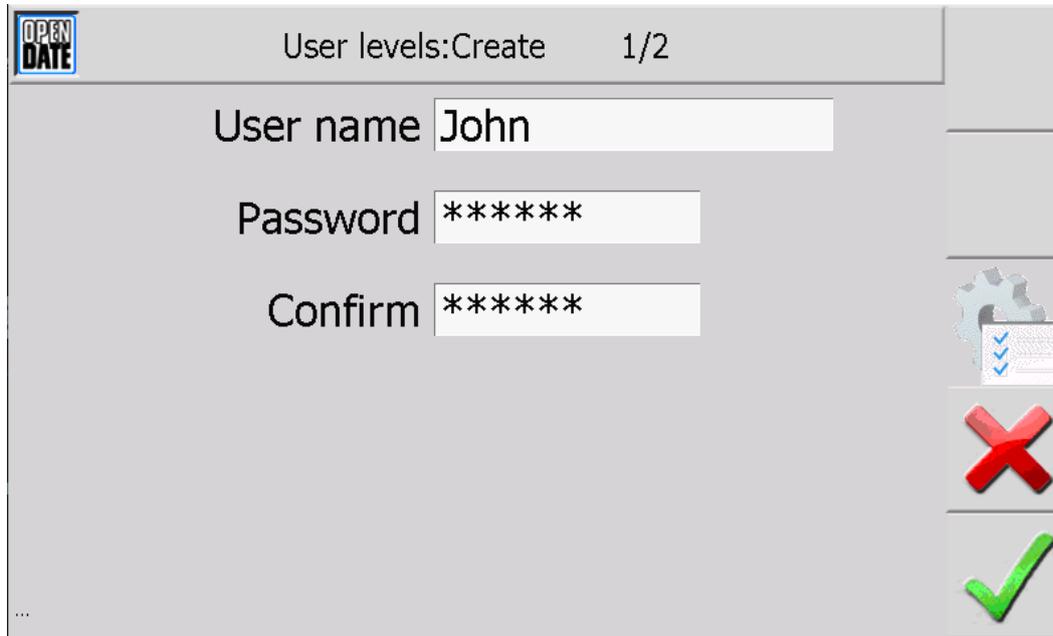
...



4.5.4.1 Create a user

4.5.4.1.1 Part 1: User Information

To create a user, Enter the name and the password (and confirm the password)



OPEN DATE

User levels:Create 1/2

User name John

Password *****

Confirm *****

...



when passwords are entered, you can access the next step: all functions available for this user

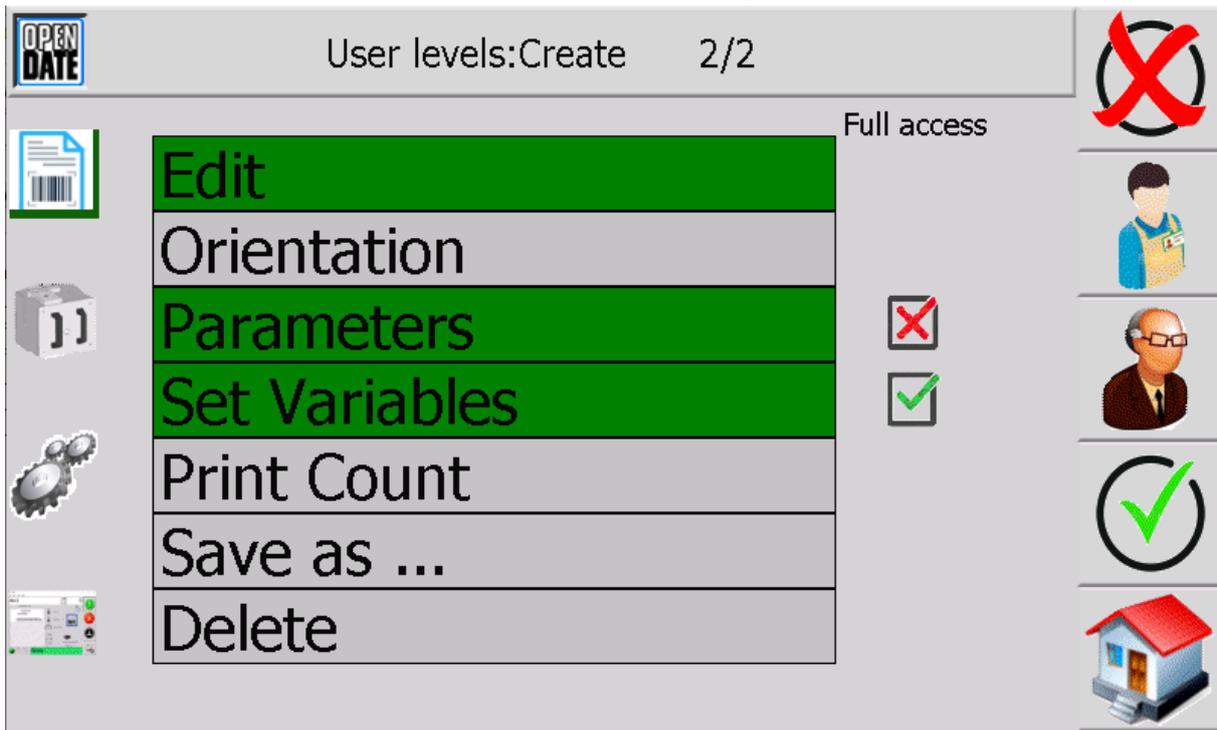


Validate and save all access for the user



the full « creation » will be lost

4.5.4.1.2 Part 2: Current format/Printer/Settings



On left part of the screen, select the section to set:



The current Format



The Printer



The Settings



Other Functions

On right part of the screen, you can select pre-set functions for 4 different levels



Level 0, with no functions available (De-select all)



Level 1: basic functions available



Level 2: most of functions for an engineer



Level 3: Highest level with all functionalities (except Edit Printhead Data) (Select all)

In the menu, select a choice to turn it « On » or « Off » (Enable or Disable)

the part « Full access » :

Full access



Full Access: « Off» the attribute for the option is Read/Only (View)

Full access



Full Access: « On» possible to Edit/Modify

Example:

Full access	
Test Print	
Printhead Height	<input checked="" type="checkbox"/>
Ribbon Parameters	<input type="checkbox"/>
Relay/Delay	<input checked="" type="checkbox"/>
Printhead Data	<input type="checkbox"/>

in this case:

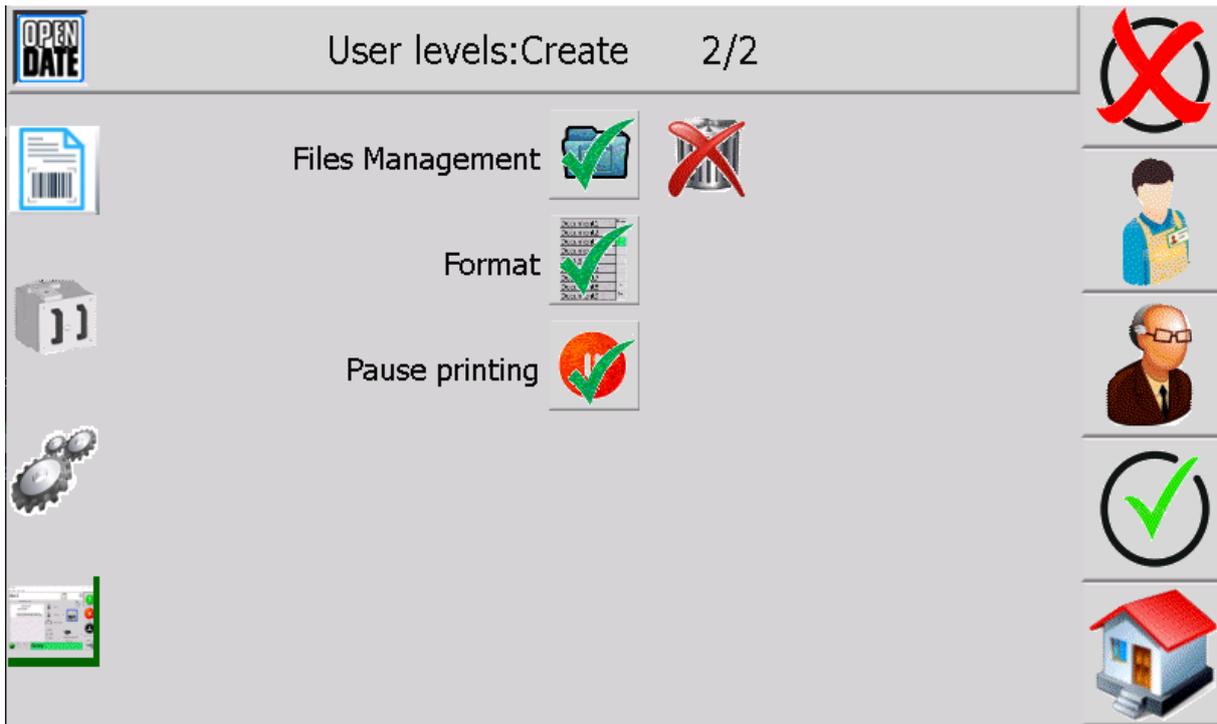
functions available and possible to modify:

Printhead Height and Relay/Delay

functions available with View only :

Ribbon Parameters and Printhead Data

4.5.4.1.3 Other functions available



Other functions (not displayed or not in Menu) can be «ON» or «OFF»



Files management:
Disable or Enable



Delete files in Files
management:
Disable or Enable



Select a Format in
Main screen: Disable
or Enable



Pause Printing in
Main screen: Disable
or Enable

4.5.4.2 Modify a user

Similar to « Create a user ». Only the information screen for the user differs: you can change the password

The screenshot shows a software interface for modifying a user. At the top left is the 'OPEN DATE' logo. The title bar reads 'User levels:Modify 1/2'. The main area contains four input fields: 'User name' with the value 'Angela', 'Password', 'New password', and 'Confirm'. On the right side, there is a vertical stack of icons: a gear icon, a document with checkmarks, a large red 'X', and a large green checkmark. A small '...' icon is visible at the bottom left of the form area.

- | | |
|-----------------------------------|------------------------------------------------------------|
| Password <input type="text"/> | Password needs to be entered before to go to modifications |
| New password <input type="text"/> | New password (if needed) |
| Confirm <input type="text"/> | Confirm the new password |

OPEN DATE User levels: Show/Delete

All users

John	Hom
Meg	^
Andrew	
Robert	
Terry	
Luis	
Andrew	v
Eric	End

Do you confirm to delete it ?



...




4.5.4.3 Show/Delete a user

This part shows the list of all users. It's possible to Delete one or several users

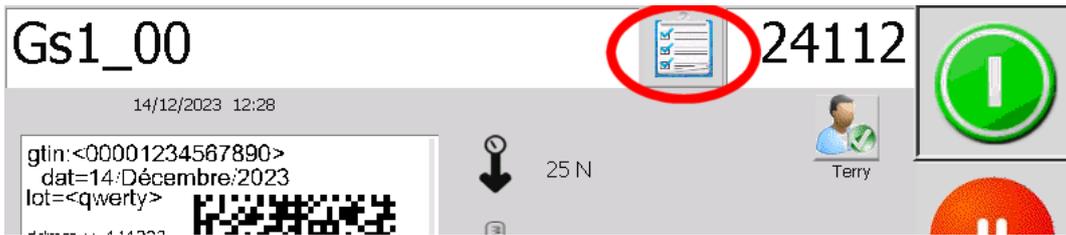
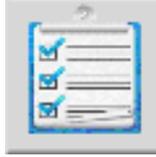


Before DELETE, you must switch this button «ON»

5 Variables

5.1 Select a variable

5.1.1 Access from the «Main screen»

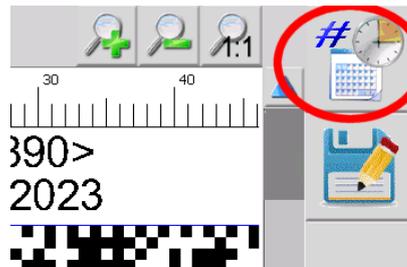


This icon gives access to select a «Variable»

5.1.2 Access from the part «Edit»



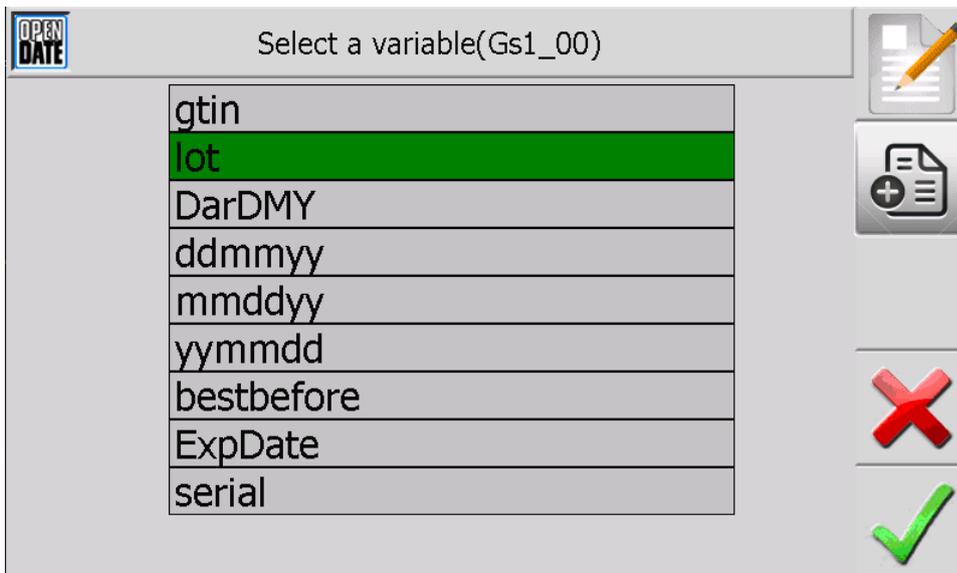
→ Edit a format



→ Edit a field from keyboard



5.2 Select a variable

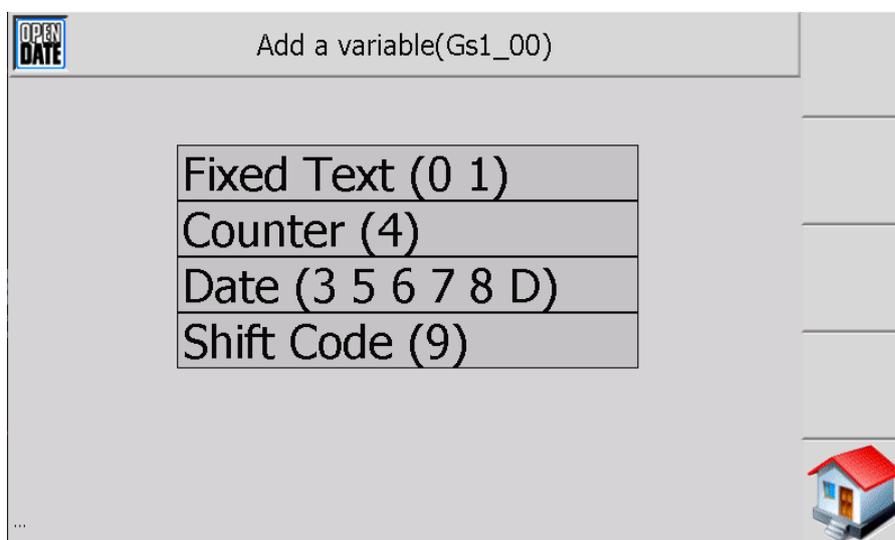


Edit/Change a variable



Create/Add a variable. Not available from the main screen

5.3 Create a variable



The different variables are:

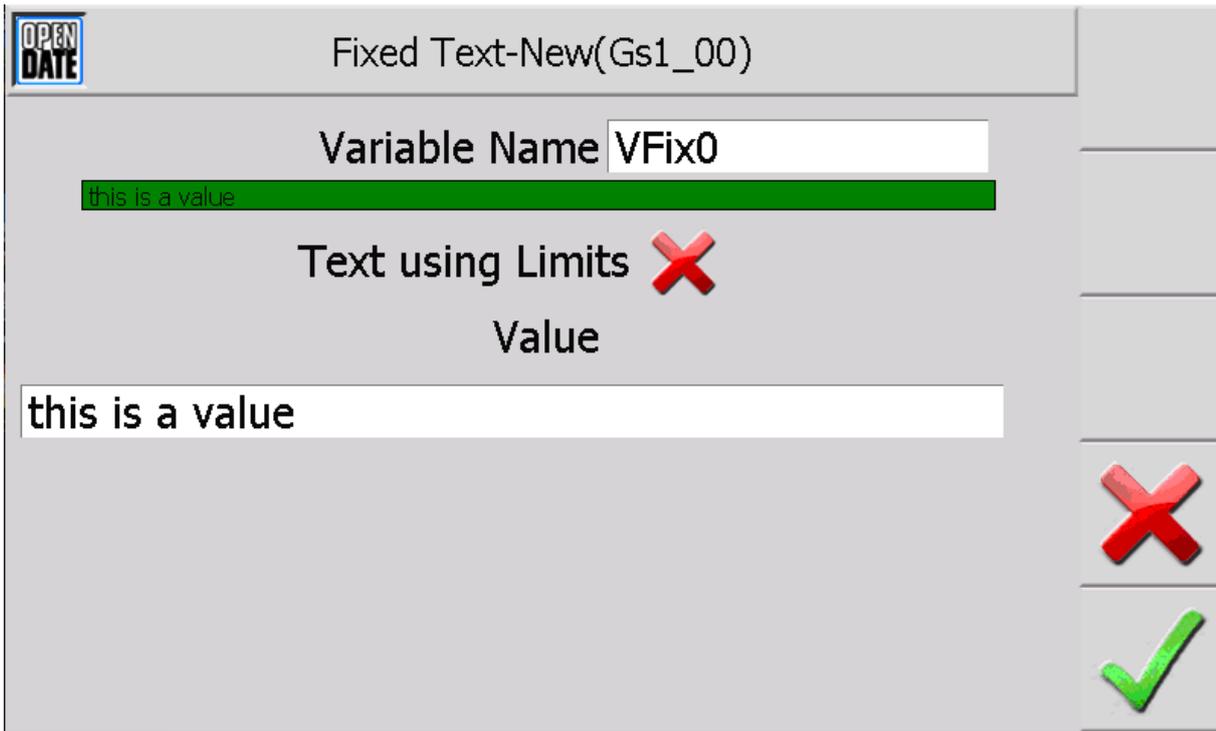
- Fixed Texts simple or with limits
- Counters → Dates → Shift codes

See also: Escape command <ESC> E

- Fixed text: <ESC> E 0 Fixed text with limits : <ESC> E 1
- Counter : <ESC> E 4 Date : <ESC> E n
- with n=3 5 6 7 8 or D Shift Code: <ESC> E 9

5.4 All Variables

5.4.1 Fixed Text simple (ESC E 0)



Text using Limits 

Condition for this variable. Generates a simple fixed variable (0)

Variable Name

Current name of this variable (access to the keyboard)

 this is a value

Final preview

Current value. Access to the keyboard


Text using Limits-New(Gs1_00)

Variable Name

000000000qwerty

Text using Limits 

Value

No. of Characters ◀ ▶

Fill with

Justify Right 





Text using Limits 

Condition for this variable. Generates a variable with burns (1)

000000000qwerty

Final preview

Value

Value of the variable (access to the keyboard)

No. of Characters

Length of the variable

Fill with

Byte used to fill until the length

Justify Right 

Justify Right/Left

0005

Preview of the final counter

Counter Field theCount

Name of the counter. Access to the keyboard

All information needed for a counter, are also explained in the Programming manual (Escape sequences)

Counter start Number: leading zeros specify the maximum counter capacity and printability. Leading spaces before the start number indicate the number will be printed with leading spaces. (See justification parameter)

Increment: specify the amount each print has to advance.

Repeating Pallet count: Pallet Count/Repeating sequence Number, specifies the number of the same prints required before incrementing to the next count.

Rollover Number: Roll over number, specifies the last printed number before the counter resets to the original start number.

No. of Characters: Number of bytes in the final destination

Print Leading Zeros: fill with the byte '0' (zero) or not

Justify Right: Justification Character left or right.

5.4.4 Dates (ESC E 3, 5, 6, 7, 8, D)

Several types of dates are available

OPEN DATE Date-New(Gs1_00)

Variable Name

Value

Date Type ↓

Format ↓

Offset from Midnight [←] [→] [-1439;1439] (Minutes)

The variables « dates » are also explained in the Programming manual (Escape Sequences)

5.4.4.1 Common part for all dates

Variable Name	<input type="text" value="DateName"/>	Name of the variable. Access to the keyboard
Value	<input type="text"/>	Actual value of the Date (Empty on creation)
	<input type="text" value="15.12.2023 - 11:05:20"/>	Current Date/Time of the system
	<input type="text" value="11:05:20"/>	Final preview

The field « Date Type » selects the form of date used for this variable:

Date Type ↓

Types of dates available with the list box:

3 (24h)
5 (Day)
6 (Year)
7 (Month)
8 (12h)
D (D/M/Y)

5.4.4.2 Variable Time (24h)

Time in form 24 hours

Escape: <ESC> E {nnnnnnnnnn} 3 ...

OPEN DATE

Date-New(Gs1_00)

Variable Name

Value

Date Type ↓

Format ↓

Offset from Midnight [←] [→] [-1439;1439] (Minutes)

✖

✔

Date Type

Type selected for Time 24 hours

Format ↓

Field Format. See All formats available below

Offset from Midnight [←] [→] [-1439;1439] (Minutes)

The amount of minutes to offset. (valid range -1439 to +1439)

All formats available for Time 24 hours

1	hh:mm:ss (24h)
2	hh:mm (24h)
3	hhmm (24h)
4	hh (24h)
5	mm
6	ss

5.4.4.3 Variable Date: Day

Day of the current date

Escape: <ESC> E {nnnnnnnnnn} 5 ...

OPEN DATE

Date-New(Gs1_00)

Variable Name

Value

Date Type ↓

Format ↓

Offset from Midnight [←] [→] [-1439;1439] (Minutes)

Days Offset [←] [→] [-9999;9999]

✖

✔

Date Type ↓

Type selected for Day

Format ↓

Field Format. See All formats available below

Offset from Midnight [←] [→] [-1439;1439] (Minutes)

Amount of minutes to offset. (valid range -1439 to +1439)

Days Offset [←] [→] [-9999;9999]

Number of Days to offset. (Valid range -9,999 to 9,999)

All formats available for Day

1 dd
2 d
3 ddd
4 ddddd..
5 JJJ (366=29/02)
6 JJJ (366=31/12)

Types of Day Insertion fields:

- 1 = dd (day of month, 2 numerical digits)
- 2 = d (day of week as a numerical number, uses **SYSDAY1** Global variable)
- 3 = ddd (day of week, 3 alphabetical, uses **SYSDAY3** Global variable)
- 4 = ddddd.... (day of week, alphabetical spelling, uses **SYSDAY** Global variable)
- 5 = JJJ (Julian Day of Year, Day 366 = 29 Feb)
- 6 = JJJ (Julian Day of Year, Day 366 = 31 December)

5.4.4.4 Variable Date: Year

Year of the current date

Escape: <ESC> E {nnnnnnnnnn} 6 ...

OPEN DATE

Date-New(Gs1_00)

Variable Name

Value

Date Type

Format

Offset from Midnight [-1439;1439] (Minutes)

Days Offset [-9999;9999]

Month Offset [-9999;9999]





Date Type **6 (Year)**

Type selected for Year

Format **1 Y**

Field Format. See All formats available below

Offset from Midnight **0**

[-1439;1439] (Minutes)

Amount of minutes to offset. (valid range -1439 to +1439)

Days Offset **0**

[-9999;9999]

Number of Days to offset. (Valid range -9,999 to 9,999)

Month Offset **0**

[-9999;9999]

Number of Months to offset, from printer date. (Valid range -9,999 to 9,999)

All formats available for Year

1 Y
2 YY
3 YYYY
4 WW...

Types of Year Insertion fields:

1 = Y (Year, 1 numerical digits. 1998 = 8)

2 = YY (Year, 2 numerical digits. 1998 = 98)

3 = YYYY (Year, 4 numerical digits. 1998 = 1998)

4 = WW (Week number of year, 2 numerical digits)

5.4.4.5 Variable Date: Month

Year of the current date

Escape: <ESC> E {nnnnnnnnnn} 7 ...

Date Type 7 (Month) Type selected for Month

Format 1 MM Field Format. See All formats available below

Offset from Midnight 0 [-1439;1439] (Minutes) Amount of minutes to offset. (valid range -1439 to +1439)

Days Offset 0 [-9999;9999] Number of Days to offset. (Valid range -9,999 to 9.999)

Month Offset 0 [-9999;9999] Number of Months to offset, from printer date. (Valid range -9,999 to 9.999)

All formats available for Month

1 MM
2 MMM
3 MMMMM...
4 M

Types of Month Insertion fields: -

1 = MM (Month, 2 numerical digits. JAN = 01)

2 = MMM (Month, 3 Alphabetical characters. JAN = JAN) uses SYSMON3 Global variable.

3 = MMMMM... (Month, Alphabetical characters APRIL = APRIL) uses SYSMONTH Global variable.

4 = M (Month single alphabetical character, JAN = A) uses SYSMON1 Global variable.

5.4.4.6 Variable Time (12h)

Time in form 12 hours

Escape: <ESC> E {nnnnnnnnnn} 8 ...

Date Type

Type selected for Time 12 hours

Format

Field Format. See All formats available below

Offset from Midnight [-1439;1439] (Minutes)

Amount of minutes to offset. (valid range -1439 to +1439)

1 hh:mm:ss (12h)
2 hh:mm (12h)
3 hhmm (12h)
4 hh (12h)
5 mm
6 ss

All formats available for Time 12 hours

Types of 12-hour Time Insertion fields: -

1 = hh:mm:ss (12 hour) 2 = hh:mm (12 hour)

3 = hhmm (12 hour) 4 = hh (12 hour)

5 = mm 6 = ss

5.4.4.7 Variable Date complete: Day/Month/Year

Day + Month + Year of the current date

Escape: <ESC> E {nnnnnnnnnn} D ...

- Date Type** Type selected for Month
- Separation** Byte to separate all date fields Field. Access to the keyboard
- Order** Field for display order (see all choices below)
- Month Type** Format of month displayed (see all choices below)
- Year Type** Format of Year displayed (see all choices below)
- Offset from Midnight** [-1439;1439] (Minutes) Amount of minutes to offset. (valid range -1439 to +1439)
- Days Offset** [-9999;9999] Number of Days to offset. (Valid range -9,999 to 9.999)
- Month Offset** [-9999;9999] Number of Months to offset, from printer date. (Valid range -9,999 to 9.999)

All formats available for Order

2 DMY
3 MDY
4 YMD
5 YDM
6 MY
7 YM

- 2 DMY: Day Month Year
- 3 MDY : Month Day Year
- 4 YMD : Year Month Day
- 5 YDM : Year Day Month
- 6 MY : Month Year
- 7 YM : Year Month

All formats available for Month

Types of Month Insertion fields: -

1 MM
2 MMM
3 MMMMM...
4 M

- 1 = MM (Month, 2 numerical digits. JAN = 01)
- 2 = MMM (Month, 3 Alphabetical characters. JAN = JAN) uses SYSMON3 Global variable.
- 3 = MMMMM... (Month, Alphabetical characters APRIL = APRIL) uses SYSMONTH Global variable.
- 4 = M (Month single alphabetical character, JAN = A) uses SYSMON1 Global variable.

All formats available for Year

2 YY
3 YYYY

Types of Year Insertion fields:

2 = YY (Year, 2 numerical digits. 1998 = 98)

3 = YYYY (Year, 4 numerical digits. 1998 = 1998)

5.4.5 Shift Codes (ESC E 9)

Escape: <ESC> E {nnnnnnnnnn} 9 ...

Variable Name	ShiftCode
Start Time 1	1
Start Time 2	5
Start Time 3	10
Start Time 4	18
Start Time 5	20
Start Time 6	22

To fill the Shift Texts, use the system variable « SHIFT »

ex: <ESC> 0 X SYSSHIFT Shift1, Shift2, Shift3, Shift4, Shift5 <LF>

6 Spooler

6.1 Definition

Spooling is putting Formats into a queue before sending it to the printer

we use 2 methods:

→ Simple spooler: all formats are stored in a queue. And ready to be automatically printed

→ File Storage: all formats are packed into a file. The user decides when to unpack them and start printing. This functionality is used for fast printing and big number of formats

All files are created, saved or copied into the directory: \Spool

6.2 Install the « Spooler »

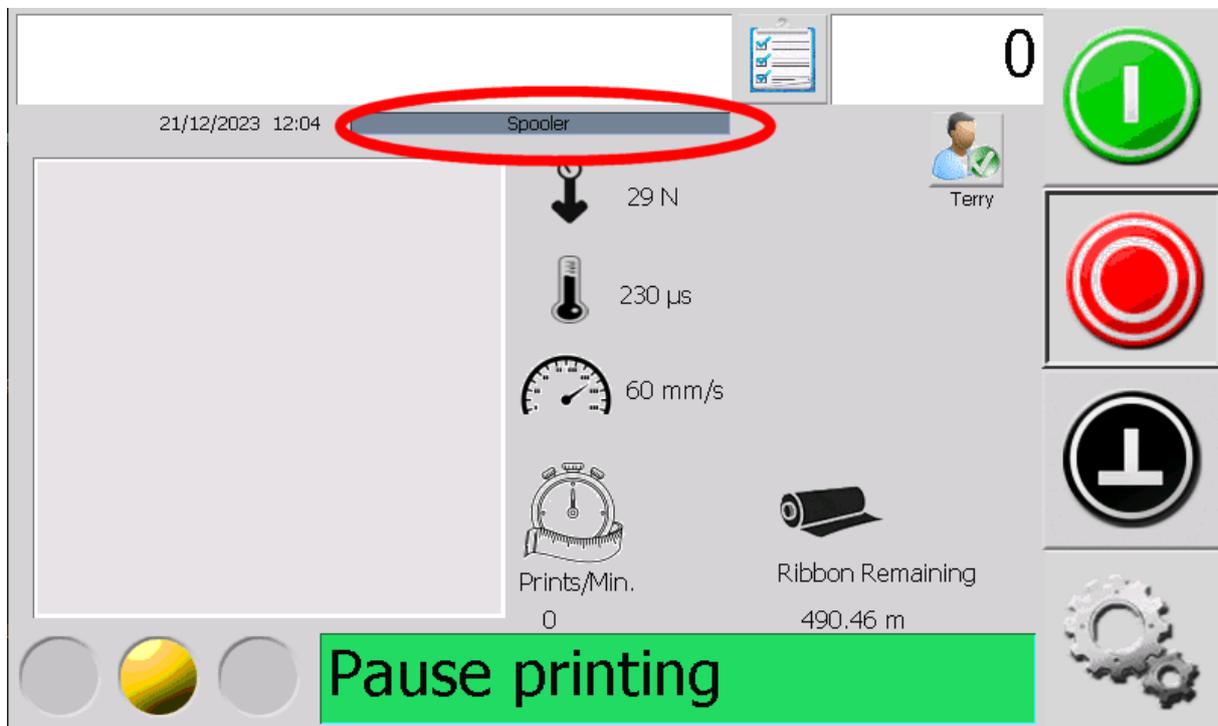
Change the system variable « DESKTOPPRINTER » to be able to use the spooler

XSYSDESKTOPPRINTER: set the Spooler functionality

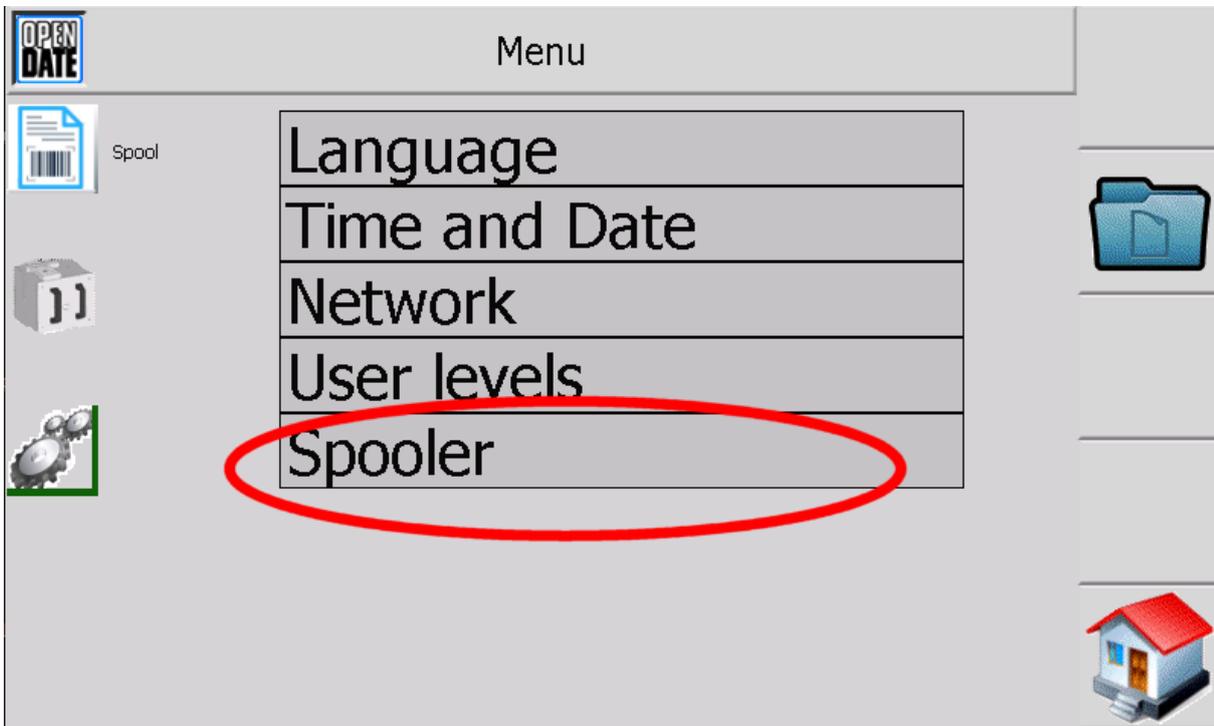
0 = no spool
1 = spool printing

After changing the value, the printer swaps to the « spooler » functionality

See changes in the main Screen:



Also, the main Menu integrates a new choice: the « Spooler » settings



6.2.1 Simple spooler

To use this method:

→ From any Label Design (Codesoft, Bartender, ...) send formats to the printer

All formats will be renamed to : « Spool » + NNNN

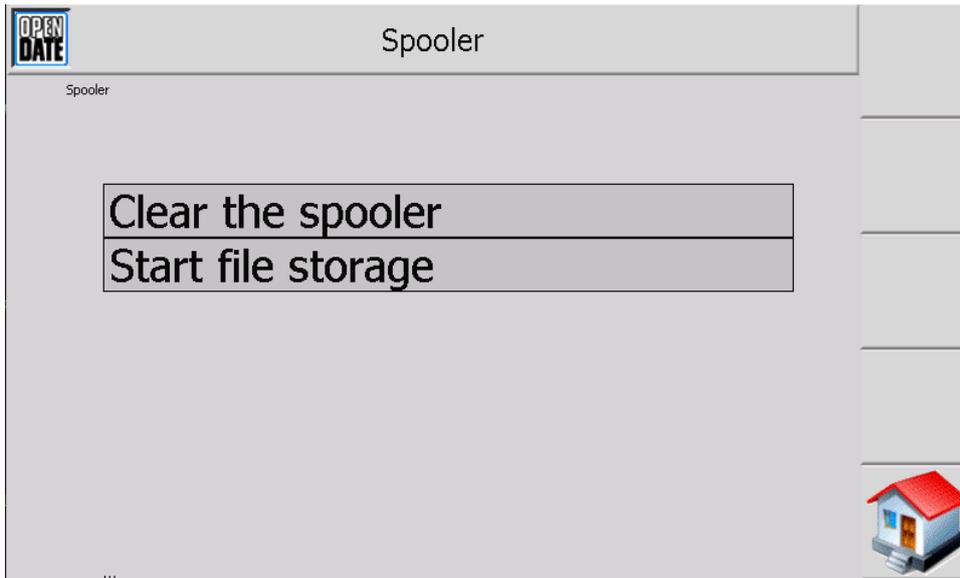
NNNN: Counter in 4 digits

All file names will be saved in a queue, into the file: HEAP_FORMATS.ini

→ When print signal: the current file (in top of the queue) is printed.

The next format in the queue is automatically activated and ready to receive the next Print signal.

The Menu for “Spooler” is:



Clear the spooler

Clear all files in memory.
Used when Error on files generation, or to re-start the generation

Start file storage

Start method 2: File Storage

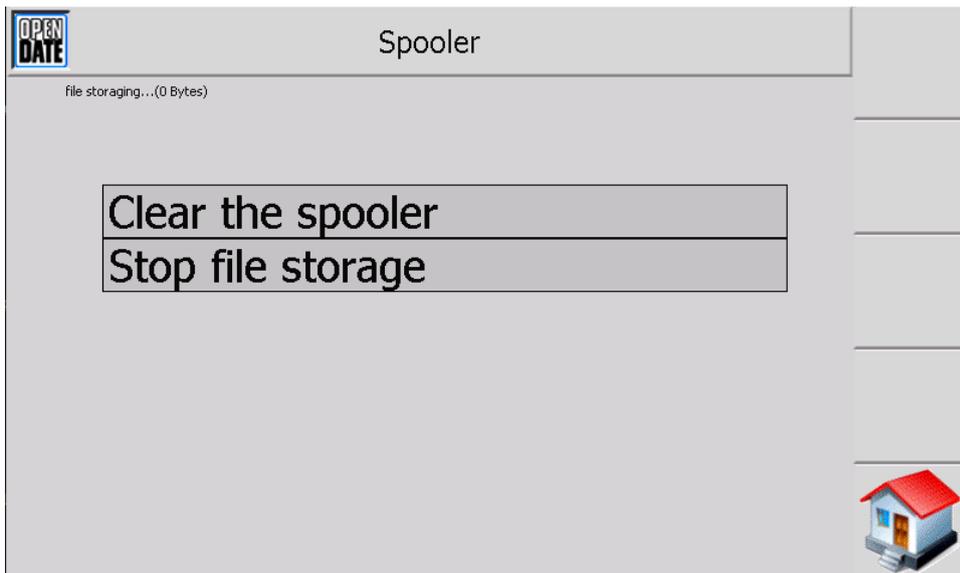
Spooler

Current method for spooler.
Default: Spooler

6.2.2 File storage

After starting the « File Storage » method, the « Spooler » screen changes.

If no format has been received yet:



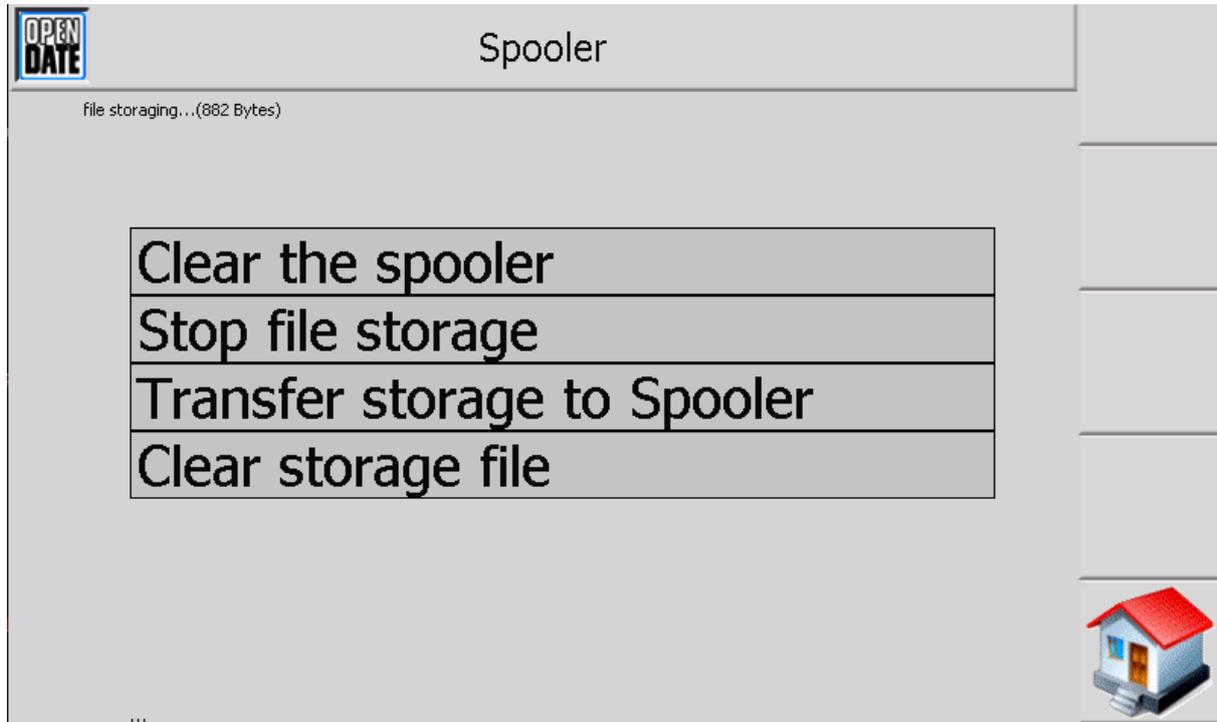
Stop file storage

Stop the system when transfer ends

file storing...(0 Bytes)

Indicates method: File Storage
size received and saved in Bytes

When some labels have been received, the Menu changes:



Transfer storage to Spooler Transfer all formats to the queue

Clear storage file Clear all files

Actions when transfer is done:

- Stop file storage: stop packing all information received from a label design
- Transfer storage to spooler: unpack all information into the queue

details with the method file storage:

- press « Start file storage »: save all information in « StoreSpool.ctm »
- when done: press « Stop file storage »
- press « Transfer storage to Spooler » to transfer all information into the queue
(from the « StoreSpool.ctm » to files « Spool »NNNN and HEAP_FORMATS.ini)

7 Update a firmware

To update a printer firmware, you can plug a USB stick that prepares automatically the printer with the new firmware version. The USB files and folders look like:

/AutoRun

→ file: AllCommands.bat

/Firmware

→ real firmware files

/ForCopy

→ tools for the printer

To update the firmware, just plug the USB stick with the new version on the printer. The screen then describes all different steps until the final screen:

Unplug the USB stick screen and restart the printer:

```
\USB HD> echo off
-----
install new IQ firmware
-----
Part 1 : exit firmware running
-----
Pinging Host 127.0.0.1
Reply from 127.0.0.1: Echo size=32 time<1ms TTL=128
-----
Part 2 - Copy Shorcuts and tools
-----
HD: \FlashDisk\Labels already exists.
Copied 1 file(s).
Copied 1 file(s).
```

```
end update
-----
unplug the USB stick and Restart the printer
-----
Press any key to continue... █
```

final screen – press key to continue.

After this last step, the printer restarts with the new firmware version



OPEN DATE Information - Printer version: TC IV

Open Date Equipment Ltd.
9 Puma Trade Park, Morden Road
Mitcham, Surrey, CR4 4DG. UK
+44 (0) 20 8655 4999
<https://www.opendate.com/>

19/12/2023 - 11:28:30
Meters Done: 241
Ram: 63.7 Mb (63725568 Bytes)

Firmware: 1.00.03 - TC4
Printer version: TC IV-53M
Printing length: 119.4mm
Serial number: AXW-12345
FPGA: 0xA0, Version: 1.4



Made in the United Kingdom