INFO Compact Plus Printer

GPT-4672/4673

Thermal Printer for Front Panel or Paper Catch Solutions

RS232 or USB • 203/300 dpi
Text and graphics bar code
up to 200 mm/s fast

GeBE Elektronik und Feinwerktechnik GmbH

Modules and devices for input, analysis, display and printing of analog and digital data.

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Operating Manual

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1 Safety Instructions

1.1 Symbols and their Meaning

Carefully read all safety instructions!

ATTENTION

concerns your **personal safety** and **must be observed at all times.** It is essential to forward these instructions to all other personnel using this device.

CAUTION hot surfaces

concerns your **personal safety** and signals a **risk of being burned** on touch. It is essential to forward these instructions to all other personnel using this device.

TIP

concerns **equipment safety**.

The adherence of all instructions, as well as the appropriate application and use in accordance with the operating instructions are binding for product liability and product warranty. Attempts by the customer to repair the device will make all warranty claims null and void.

For technical questions, please contact GeBE Technical Support.

Instructions marked with a
require consultation with GeBE Technical Support.

Tips marked with a
will help you to utilize your printer to its fullest.

Documents or Internet links are marked with a
referring to more detailed or additional information.

1.2 Device information

TIP

- The device may only be opened or repaired by authorized personnel. Never open the device or carry out repairs yourself. Always contact an authorized technical service. You can find all necessary service information in the chapter "Service and Maintenance".
- Before the device is turned on, make sure that the system voltage of your installation matches the supply voltage of the device. The device characteristics are printed on the name plate and in the technical data.
  - The name plate is located on the underside of the device.
  - For the technical data of this device, refer to the chapter "Technical Data".
- Peripheral devices that are connected to the interfaces and the DC circuits of this device have to meet the requirements for low safety voltage in accordance with EN/IEC 60950.
- Switching off the device does not completely disconnect it from the power supply. Your device is only disconnected completely, when the power is unplugged.

ATTENTION

- Please make sure that the power supply cable is run in such a way that nobody trips over it, and it cannot be damaged by other devices.

CAUTION hot surfaces

- During operation, surfaces in the surrounding area of the print head may heat up. Therefore, direct contact with the print head must be avoided to prevent burning accidents. Do not put heat sensitive objects close to this heat source.

TIP

- Avoid constant high humidity and condensation. Protect the device from being splashed and from coming in contact with chemicals.
- Only use spare parts and accessories supplied or authorized by GeBE. The use of unauthorized parts or accessories may considerably affect the function and safety of the device. All parts included are listed in the chapter "Packing List", while the original accessories are listed in the chapter "Parts and Accessories ".
- It is no longer possible to safely operate the device, if:
  - the housing has been damaged due to mechanical overload
  - moisture reached the inside of the device
  - smoke is coming from the inside of the device
  - the power supply cord is damaged
  - the device stopped working properly

Unplug or turn off the device immediately, when such a failure occurs, and contact GeBE customer service. See chapter "Service and Maintenance".

We explicitly state that all product liability and guaratee claims are null and void, if the device has not been used in accordance with the instructions in this operating manual or on the device itself, or if it has been used inappropriately.

Safe operation of this device is only warranteed, if the instructions in this operating manual have been complied with.
For installation: Always disconnect system power supplies.
Only use manufacturer's parts and accessories.

2 Description

Small and Compact
The design of most kiosk terminals is continuously getting smaller. The printer INFO Compact Plus with variable paper holder may be the ideal solution. The paper is unwound and transported down from an axle into the printer mechanism. A fastener on the side prevents the paper roll from slipping off the axle. An optionally available near-paper-end sensor reports the paper status. An adjuster allows setting of user-defined paper widths (see chapter 3, 11) until maximum 60/82 mm paper width.

Fast Printing
Various applications - especially in the public domain - require considerably faster data output. The new GeBE INFO Compact Plus printer prints up to 200 mm per second, counteracting any impatient pulling on the paper by the user and therefore, avoiding costly damage of printer mechanism or cutter.

GeBE Controller
Controller GCT-4692/4693, developed by GeBE and controlling these fast printouts, has been combined with a robust printer mechanism to create a new product. The mechanics of this printer mechanism originates from the established industrial printer module family INFO from GeBE. In addition to its speed, this fast, compact INFO - printer for the kiosk area stands out due to high reliability, its service and application friendlyness.

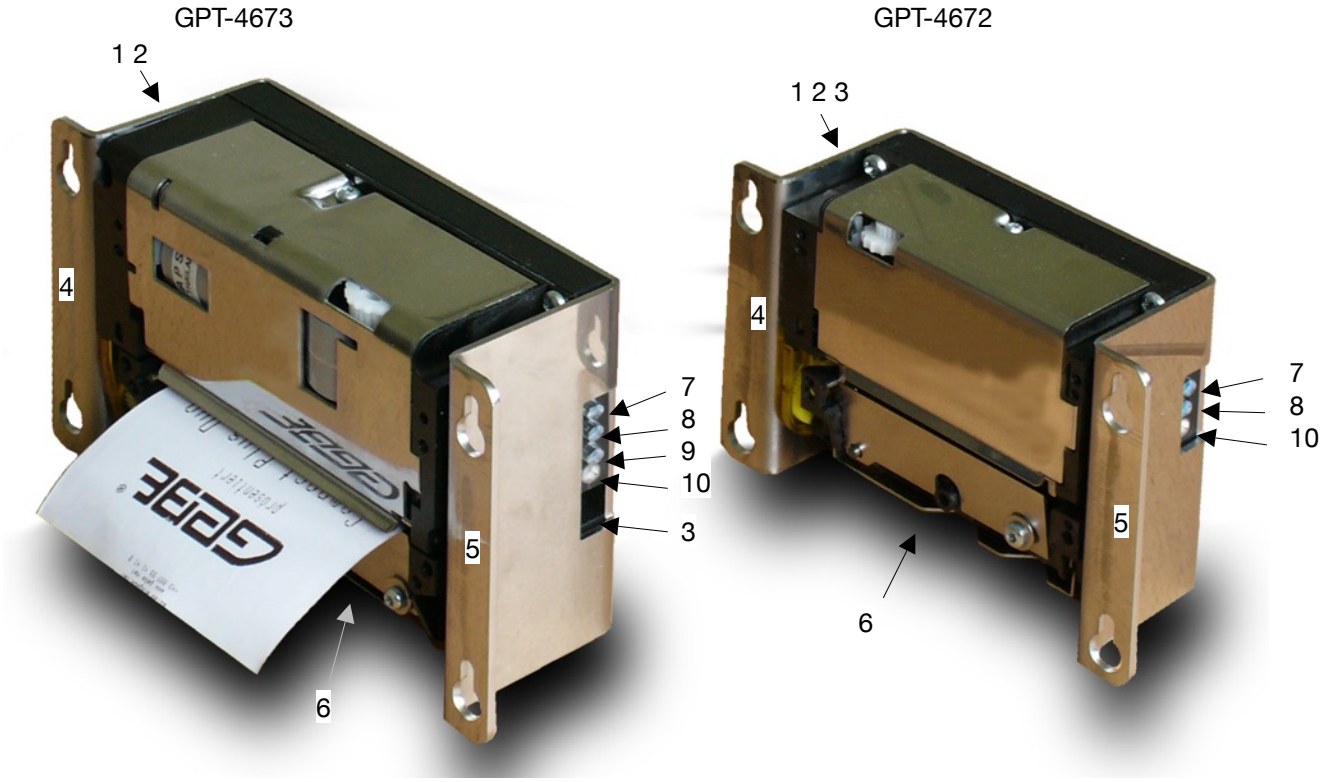
Easy Customization through Software
Settings such as blackening, text size, RS232 control, etc. can be set up by the user. On request, command and character set adaptations can also be performed at the factory.

Downloads
Firmware, fonts, logos, macros, settings, etc. can simply be sent as a file from the PC through the active interface to the printer, where they are stored permanently.

3 Layout and functions

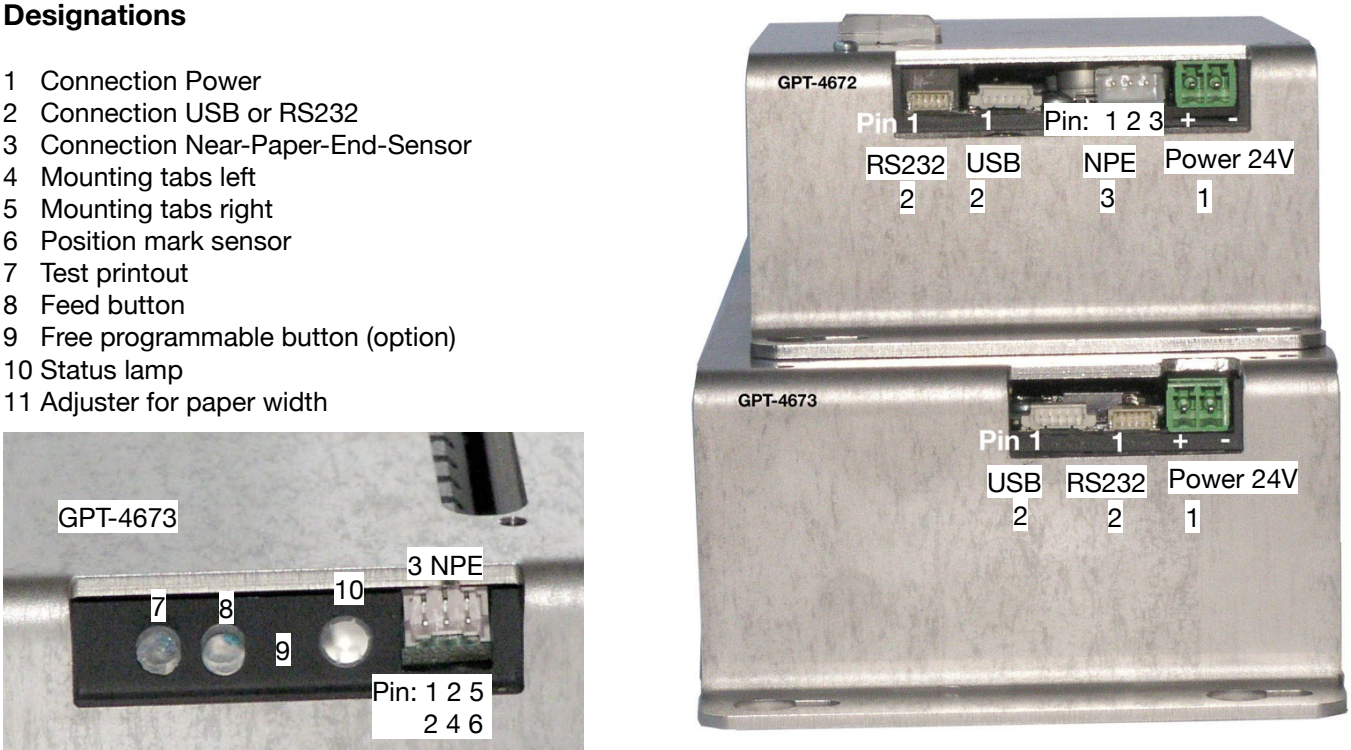
TIP

The technology and equipment of the product described in this manual are in accordance with the latest state of national and international requirements in regard to function and safety. Further developments and advancements are continuously being considered. For this reason, illustrations, dimensions, technical data and general content shown in the following may change without prior notice.
This operating manual is designed to help you operate our product, which has been developed and manufactured according to modern technology standards, with its multiple options, optimally and securely. Please read this manual carefully before initial operation and store it in close proximity of the device, so it will be available if needed.
Should you have any further questions, please contact our personnel. Phone numbers and email addresses are listed in the chapter "Service and Maintenance".



Designations

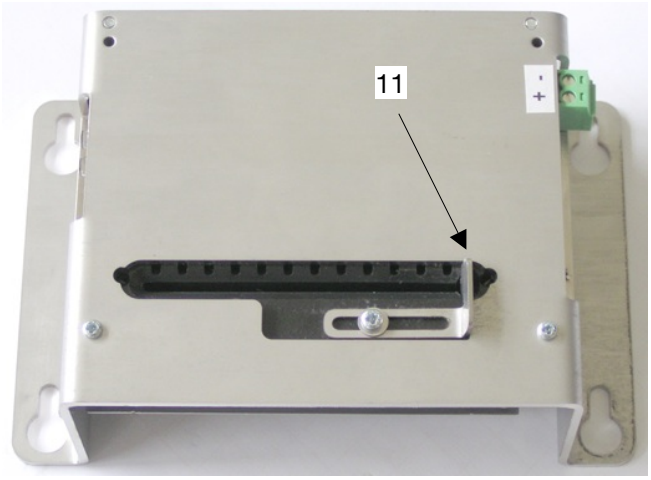
1 Connection Power
2 Connection USB or RS232
3 Connection Near-Paper-End-Sensor
4 Mounting tabs left
5 Mounting tabs right
6 Position mark sensor
7 Test printout
8 Feed button
9 Free programmable button (option)
10 Status lamp
11 Adjuster for paper width



3.1 Options
- Anti Jam Unit (in preparation)
- Paper roll holder
- Paper catch
- NPE near paper end sensor

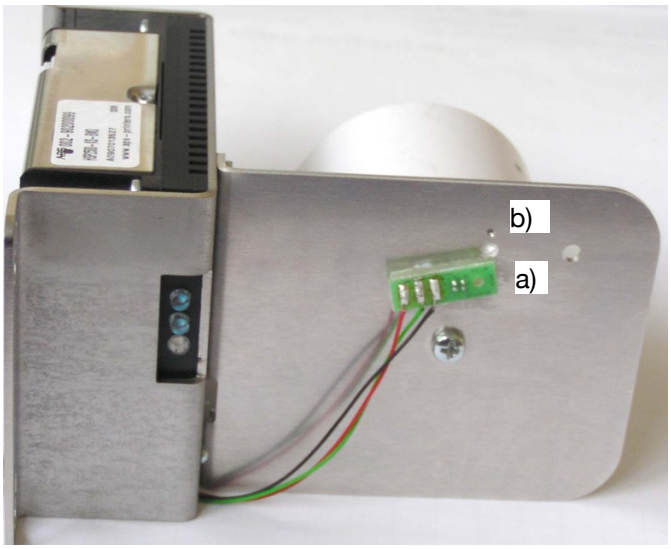
3.2 Paper holder
The printer GPT-4672/4673 can optionally be delivered with a paper holder.

3.3 Adjuster for paper width
Adjuster for using paper of different widths 51-61 mm (GPT-4672) and 60-82 mm (GPT-4673).



For adjusting the paper width, loosen screw (11) and set adjuster to designated position. Please consider not to jam the paper.

3.4 Near Paper End Sensor (optional)
The optical sensor will be screws sideways at the paper roll holder. Detectable distance to the paper roll is in a range of 0.5 to 1.0 mm. Two different installation positions (a+b) are available.

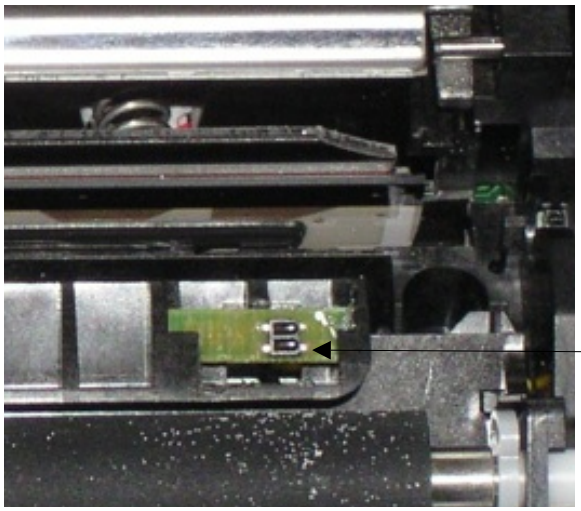


The sensor is plugged on the board.

GPT-4672	**GPT-4673**
6157M06-R	JST-S03-B-XH-A
Pin assignment:	
1 Vcc NPE1	1 GND
2 Vcc NPE2	2 Signal NPE
3 Signal NPE1	3 Vcc
4 Signal NPE2	
5 GND	
6 GND	

see also chapter 3, sideways connections

3.5 Position mark sensor
Detection of paper with position marks.



Opening the mechanism allows access to position mark sensor (see chapter 10.3).

4 Packing list

4.1 Unpacking

Please check during the unpacking process that all parts have been delivered completely and undamaged. Make sure to remove all parts from the packaging material. Claims for damages caused during transport can only be asserted, if the carrier is informed without delay. Please prepare a survey report and send it back to the supplier along with the damaged part.

Standard versions of the thermal printers
in 2" or 3" width for OEM are supplied without accessories. Please order those separately.
All current documents are listed on the Internet at www.oem-printer.com/info.
User manuals for the GeBE thermal printer controllers installed in the printer can be requested from GeBE via email (sales.ef@gebe.net).

4.2 Standard accessories:

- 1 roll of thermal paper matching the printer width
- interface cable for RS232 or USB
- power supply
- fastening screws

4.2.1 Standard paper

A=outside coating, WR=water resistent:

- GPR-T01-060-070-025-080A/WR:
  50 pcs. thermal paper rolls w: 60 mm, th: 80 µm, diameter: 70 mm, core diameter: 25 mm, life: 7 years
- GPR-T01-082-070-025-080A/WR:
  50 pcs. thermal paper rolls w: 82 mm, th: 80 µm, diameter: 70 mm, core diameter: 25 mm, life: 7 years

Which thermal paper is suitable?
The printers are specified for 51-61 mm and 60-82 mm (+/- 0,5 mm) paper widths, up to 200 µm paper thickness.

Other papers may cause failures:
Thermal papers that are resistant against water, grease, or alcohol are available for special applications. We will gladly assist you in selecting the right thermal paper for your purposes.

Which side of the thermal paper can be printed on?
When in doubt, try the finger nail test: Quickly run the tip of a finger nail across the paper, applying pressure. The friction heat will cause blackening on the thermo sensitive side.

4.2.2 Cables

- GKA-245-1-500
  power supply, 2 single wires, 1.0 mm^2,
  500 mm, one end open, wire end sleeves
- GKA-406-2-1000
  round cable, 1,000 mm, 5pin to JST plug at controller, with 9 pin SUB-D socket to RS232 interface at the host (PC)
- GKA-570-USB-FS-MOLEX-2,0 m
  cable USB to Molex, length 2.0 m, for full speed transmission
- GKA-xxx2
  Cable Near-Paper-End-Sensor for GPT-4672 with 6pin. plug on socket 6157M06-R
- GKA-xxx3
  Cable Near-Paper-End-Sensor for GPT-4673 with 3pin. plug on socket JST-S03-B-XH-A

4.2.3 Power supply

- GNG-24V-6.5A-AC:
  open frame power supply 24 V / 6,5 A

4.3 Driver software

Printer controller GCT-4692/4693 is supported by the following Windows® drivers:
Windows® CE.Net 4.2, 5.0, Windows® 2000, and XP. The driver software can be downloaded from the internet: www.oem-printer.com/info

5 Connecting the printer

For installation:
Always disconnect system power supplies!

5.1 Power supply

The power supply is connected through commercial connectors from the supplier Phoenix.
The connectors are equipped with screw clamps.
Mounting merely requires a size 1 screw driver.
Wires have to be covered with wire end sleeves.
Connector Type MC-1,5/2-ST-3,81

5.2 Cable diameter

0.5 mm2 for cable length < 0,5 m
0.8 mm2 for cable length < 1.5 m
1.0 mm2 for cable length < 2.0 m

5.3 Serial interface

The RS232 is connected through a commercial Sub-D connector. 5 pin to JST connector at controller, with 9 pin SUB-D socket to RS232 interface at the host (PC).

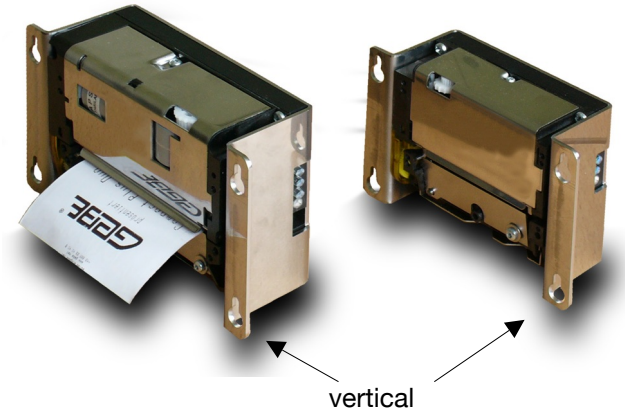
5.4 USB Interface

Cable USB to Molex, length 2.0 m, for full speed transmission.

6 Installation

6.1 Installation using mounting tabs M4

The GPT-4672/4673 can be installed vertically with four mounting tabs. For a service-friendly disassembly, the printer can be taken off by pushing it up after untightening the srcews (M4) .



6.2 Installation as a printer with paper catch

Select the mounting plane according to paper curvature and arrangement of the paper catch. The paper holder can be mounted on the right side of the printer (see chapter 6.3).

Important notes regarding paper catch solutions:

1. Electrostatic charging of the tickets
Tickets rubbing against plastic, ungrounded surfaces etc., may cause electrostatic charging of the ticket which may lead to the ticket getting stuck in the shaft.
Proposed solutions:
- Potential equalization of all metallic surfaces
- Use of electroconductive "brush" at paper outlet
- Use of antistatic paper

2. Humidity in the paper
Temperatures at or below the dew point cause the paper to absorb humidity, which may result in the paper getting stuck in the shaft.
Proposed solutions:
- Air-condition of the device
- Use of top coat paper

6.3 Installation as front panel printer

The GPT-4672/4673 is installed with mounting tabs in accordance with the application.
The transission of paper between the printer mechanism and the front slot requires a guide that can even be about 1 cm shorter than the printed receipt, provided that the length of the receipts always remains the same. This prevents the paper from being obstructed for longer periods of time during the print.

7 Status signals of the printer

The bits are defined as follows:

Status Byte 1

Bit	LED	Status	0	1
0	on	paper near end	paper low	paper OK
1	1:1	paper	present	not present
2	1:1	temperature	temperature OK	print head too hot/cold
3	1:1	head	closed	open
4	1:1	paper jam/cutter	no error	error
5	on	Rx error	no error	Rx error
6		always 0		
7		always 1.		

Mode 2 is activated through bit 1 in parameter 23.
To signal an error status, two bytes are sent to the host at all times.

The two bytes can be distinguished by bit 6:

Status Byte 2

Bit	LED	Status	0	1
0	on	AUX1 (label blackmark)	paper present	no paper
1	on	AUX2	paper present	no paper
2	on	AUX3	paper present	no paper
3	on	AUX4	paper present	no paper
4	always 0 (identifier)			
5	always 0 (identifier)			
6	always 1 (identifier)			
7	always 1 (identifier)			

8 Character sets

Font Sizes

The number of printable characters per line depends on the physical features of the printer used. Below are some examples:

Font	432/576/640 Dots/Line	Width	Height
Small Font (8x16)	54/72/80 CPL	normal	normal
Low Font (16x16)	27/36/40 CPL	double	normal
Narrow Font (8x32)	54/72/80 CPL	normal	double
Normal Font (16x32)	27/36/40 CPL	double	double
Wide Font (32x32)	13/18/20 CPL	quadruple	double
High Font (16x64)	27/36/40 CPL	double	quadruple
Large Font (32x64)	13/18/20 CPL	quadruple	quadruple
Xlarge Font (64x128)	6/9/10 CPL	eight times	eight times

Optional character sets

The following character sets are currently available and can replace other character sets in the flash memory of the µ-processor. Please contact us with your inquiry. GeBE will gladly create additional character sets.

Cyrillic

9 Interfaces

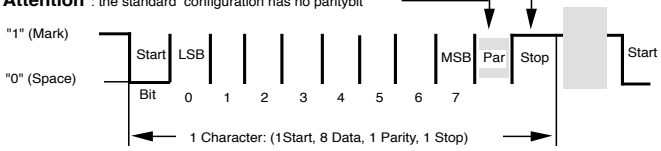
Operating the printer at extremely slow speed (<5 mm/sec.) special settings might be necessary.
Please contact our technical support.

9.1 Serial interface RS232 (V.24)

Connector SuB-D 9 pin socket with 1:1 assignment to the PC, so no 0-modem circuit necessary.

Pin	Signal	Input/ Output	Comment
1	GND	-	Connected with CTS and DTR
2	TXD	I	Print data
3	RXD	0	Error signals and Xon/Xoff messages
4	RTS	I	Handshake input of the controllers
5	CTS	0	Connected with DCD and DTR

Attention : the standard configuration has 1 stopbit
Attention : the standard configuration has no paritybit



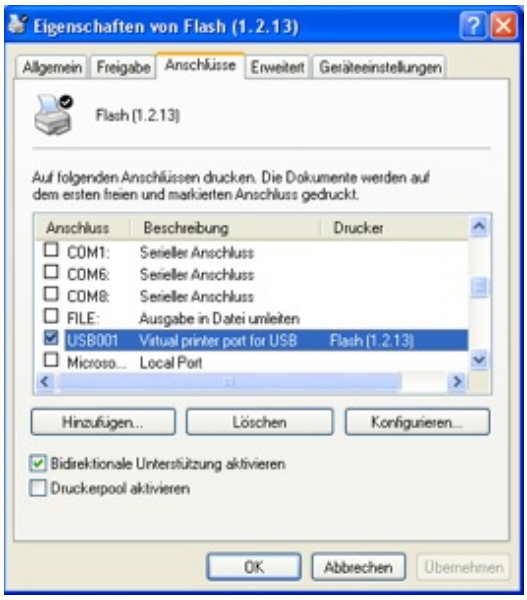
9.2 Interface USB

Connection through Molex on USB Type A.

Pin	Signal	Input/Output
1	Vcc	-
2	GND	-
3	D-	I/0
4	D+	I/0
5	GND	-

USB Printer Class:
The USB device class is "Printer Class".
When plugged in, the PC will report "USB printer support" and install a "USB001"USB port.

Either the standard printer driver of the "system A8" or the port monitor can be used. During the installation of the printer driver, it can be easily guided to the USB port.



USB Specification	V1.1 (V2.0 compatible)	
Device Type	vendor specific device or printer class	
USB	full speed 12 Mbit/s	
Power Consumption	no printing	Typ.
	USB active /printer active	30 mA
	USB active /printer sleep	25 mA
	USB suspend / printer sleep	300 µA

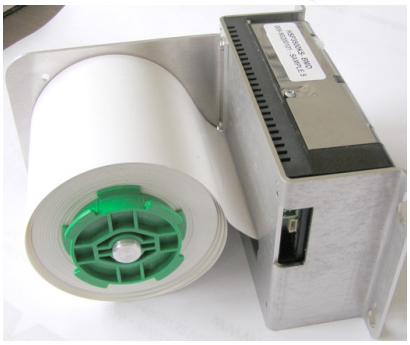
Windows XP and Windows CE handle the numeration of a printer differently. Therefore, the printer must be configurated to the operating system before delivery.

Never activate an action in the printer driver at the job end. This can cause a loss of data.

10 Label and ticket print

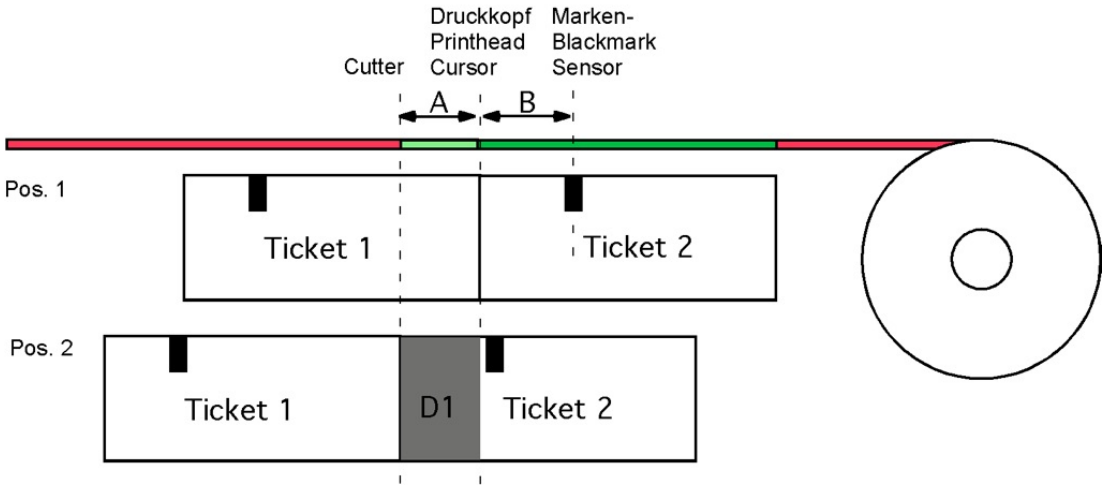
10.1 Paper insert

Printer with paper holder:
1. Pull empty paper roll core off of the paper axle.
2. Install new paper roll.
3. Position paper on the paper feeding tray and push it toward the printer mechanism.
4. Interlock the paper roll.
5. Feed in paper by pressing FEED button.
6. The paper is now inserted.



Printer without paper holder:
1. Position paper on the paper feeding tray and push it toward the printer mechanism.
2. Interlock the paper roll.
3. Feed in paper by pressing FEED button.
4. The paper is now inserted.

10.2 Printing labels and tickets



10.2.1 Label mode

The printer firmware utilizes hole-marks or black marks for exact synchronization of print line and label or ticket start. The printing of a label / ticket is concluded with a form feed (FF) <12d> command. This command causes the printer to paper feed until the black mark sensor recognizes a control mark + a defined distance „B“ (parameter 19). This also works in case the control mark has passed the black mark sensor during printing. „B“ should be selected such that the next line prints at the beginning of the new ticket.

Cutting:

A (feed „A“) has to be added after the FF command if the ticket needs to be cut after printing. The subsequent area „D1“ cannot be used for printing because it is part of the next ticket.

Hint 1: Printing of the next ticket can commence during the feed to the Cut-Position!

Hint 2: The GPT-46xx is capable of advancing paper to be cut and subsequently retracting the paper to the next printing position. The sensor must not „see“ any black marks during this process.

Distances:

sensor, print head, cutter

in mm	GPT-4673	GPT-4672
B: sensor - print head	15	13,5
A: print head - cutter	13,5	12

Label mode can be configured by means of several printer parameters. For standard tickets, only the parameter 20 needs to be changed from a decimal value of 0d to 3d. Parameters are saved to user settings by using the command format:
<ESC>V<Param><Value>.

Setting label control:

Parameter 16: Standard Setting := 254d
Label length in mm:
This setting indicates how long the device looks for black marks before the search is canceled. This value should be significantly longer than the length of the label or ticket.

Parameter 17: Standard Setting := 16d
Length of recognition of black mark in lines (1/8 mm):
This parameter controls how many black mark lines has to be recognized that a black mark becomes valid. For instance, black marks will be recognized quickly if the parameter is set to a low value, such as 4d. On the other hand, some elements other than black marks, such as pre printed text, might also be recognized as black marks. The standard setting 10d will ignore pre-printed elements of < 1mm.

Parameter 18: Standard Setting := 80d
Length of black mark or distance to PE-Recognition in lines (1/8 mm):
This parameter controls after how many paper-end lines the paper-end condition is met. The PE-Error is deleted as soon as new paper is detected. A line feed is necessary, and the value should be about 1 mm larger than the utilized black mark size. Too large of a value will cause a delay in PE-recognition.

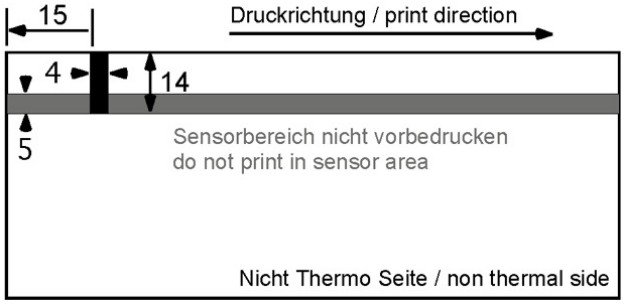
Parameter 19: Standard Setting := 0d
Label-distance print head <-> Black mark sensor in lines (1/8 mm):
This parameter controls how long printing commences after a black mark has been recognized. This distance includes printing and form feed until the ticket ends. Therefore it is not imperative for the black mark to be at the beginning of the ticket. This setting permits to “move” a black mark to any position.

Parameter 20: Standard Setting := 3d
Label-Flags
Bit 0: enable label mode (1: label mode on)
Bit 1: 0: internal PE sensor
1: AUX1 used for label control
Bit 2: 1: increases P19 value about 265 lines
Bit 3-7: future use (has to be set to zero)

Parameter 39: Standard Setting := 0d
This parameter indicates which kind of sensor is connected (reflex/fork light barrier).
Bit polarity:
0 = Reflex light barrier
1 = Fork light barrier

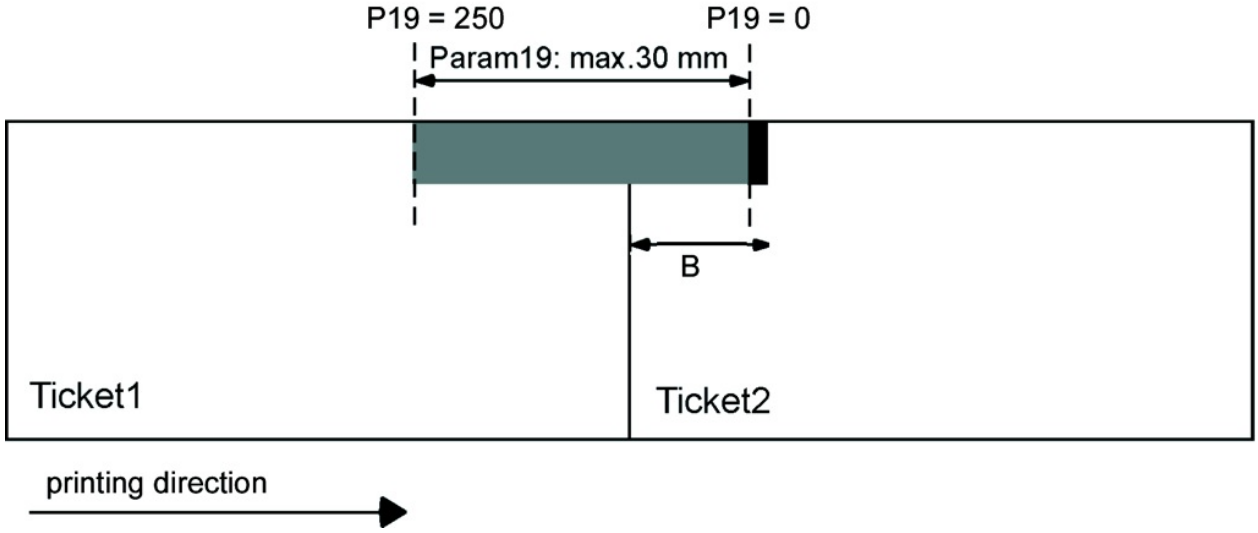
Sensor	Param-Bit
NPE	Bit 0
AUX1	Bit 1
AUX2	Bit 2
AUX3	Bit 3
AUX4	Bit 4

10.2.2 Control black marks



Control black marks must be printed using infrared absorbing color in the range of 910-950 nm. Optical density should be a minimum of 1.0.

After the printer received a form feed command, the ticket will be positioned to the black mark position + the length set under Param 19.
This also works in case the control mark has passed the black mark sensor during printing. Therefore, the control mark can be set at random within Param 19. See illustration.
„Final Position“ (P19 := 0) is defined by the distance between print position and black mark sensor.



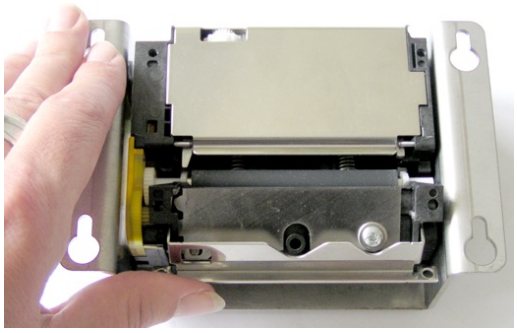
11 Cleaning

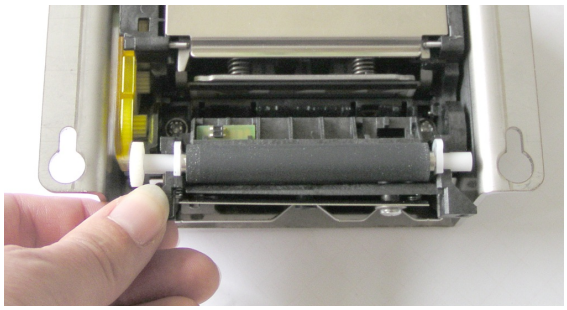
After larger print efforts, depending on the paper quality and adverse environmental conditions, it may be necessary to clean the print head, sensor, and the platen roll, especially, if some areas are no longer printed properly.

1. Open printer mechanism by slightly pressing metal lever upwards.
2. Flap downwards paper carrier roller incl. position mark sensor. The printer mechanism is now open.
3. Blow forcefully into printer mechanism and onto position mark sensor, in order to remove coarse dust.

> ⚠ On principle the printer has to be kept dust-free.

4. Use a small brush to clean paper carrier roll, sensor and tear-off edge from dirt.
5. Soak Q-tip in isopropanol (IPA) and clean the print bar. Other stubborn debris can also be removed with a Q-tip (IPA).





> ⚠ Never use sharp objects for cleaning. This might cause damage to the print head.
> Do not touch the print head. This might cause damage through electrostatic charge.

12 Troubleshooting and recovery

Not every failure means that there is an error that cannot be cleared by the user himself. You will save time and money by recognizing and fixing simple errors on your own. The following tips are meant to help you with this:
Hardware RESET: Activated by unplugging and reconnecting the power supply after a short break.
This sets the printer in accordance with the TINIT-F and/or the TINIT-E in the batch file.

Symptom	Possible Cause	Remedy
The printer seems to be printing, but the paper is not blackened.	Paper inserted incorrectly.	Insert paper correctly.
The printer only prints a few characters in one line. If more is entered, it stops printing altogether.	The power supply is not optimal.	Use sufficiently sized power supply and short feed lines. Check all connections for possible transfer resistances. Since high peak currents occur with thermal printers, even the smallest transfer resistances can result in intolerable voltage drops. In this case, no power supply would be strong enough. Buffering with capacitors is possible, if the power supply is only too weak by a small margin and large capacitors (e.g. 4,700 µF; high switching capability) are used.
The printer only prints a few dots in one line.		
After a few characters, the printout starts to be incomplete.	The printer buffer is "over-run" (256 bytes), causing loss of data.	Solution: Use or check handshake. (software: Xon/Xoff or hardware). If necessary: slow down transmission speed, e.g. down to 1,200 baud. (See MAN-E-559 Interface Settings)
The printer prints the wrong characters.	TTl instead of RS232 interface or vice-versa. (Characters of the upper area are printed).	Use correct interface.
	Bad ground connection that causes a part of the printing current to flow through the interface cable. This leads to an increase in potential there, which results in data corruption.	Repair ground connection.
Printer works with a PC, but not at the machine.	Printer is electrically incompatible with the host.	Measure level of the line signaling the errors. GeBE can adjust this.

13 Service

Warranty

We guarantee that all goods supplied by GeBE possess the warranted features. The guarantee period for OEM's is 12 months unless other terms have been agreed upon in writing, and is calculated from the date of shipment.
The warranty is null and void, if the customer fails to claim an occuring defect without delay and in writing. Detailed information on our warranty is part of our terms of delivery and payment, which can be seen and downloaded at www.oem-printer.com/lzb (home page chapter: About Us).

Service

For service or questions, please contact: GeBE Elektronik und Feinwerktechnik GmbH
Beethovenstr. 15 • 82110 Germering • Germany • www.gebe.net
Phone: +49 (0) 89/894141-0 • Fax: +49 (0) 89/8402168 • Email: sales.ef@gebe.net

Further Information

Further information on the INFO printer series is available at www.oem-printer.com/info.
At this address, you can also find a personal consultant you can turn to with your questions.
Or, simply send an email to the GeBE sales team: sales.ef@gebe.net
For orders you can use this fax number: +49 (0) 89/894141-33

14 Declaration of conformity

DECLARATION OF COMFORMITY

in compliance with EN45014

KONFORMITÄTSERKLÄRUNG

in Übereinstimmung mit EN45014

Supplier:	GeBE Elektronik und Feinwerktechnik GmbH
Anbieter:	
Address:	Beethovenstr.15
Anschrift:	82110 Germering
	Germany
Products:	begining with Serial Number: 1001xxxx
Produkte:	beginnend mit Seriennummer: 1001xxxx
	GPT-4672-93-USB
	GPT-4672-93-V.24
	GPT-4673-92-USB
	GPT-4673-92-V.24
	GPT-4673-300-92-USB
	GPT-4673-300-92-V.24

The Products described above are in conformity with:

Die oben beschriebenen Produkte sind konform mit:

EMC Directive / EMV Richtlinie 89/336/EWG

Information technology equipment

Einrichtungen der Informationstechnik

Radio disturbance characteristics .....EN 55022 1998 Funk-störeigenschaften

Immunity characteristics EN 55024 2003

Störfestigkeitseigenschaften

Germering, the 8/6/2013, den 06.08.2013

i.V. Klaus Baldig

Head of R&D/ Leiter der Entwicklung

GeBE Elektronik und Feinwerktechnik GmbH GKV 027-1

15 Technical data

	GPT-4672	GPT-4673	GPT-4673-300
Dots per mm	448	640	960
Cutter	2 Mio. cuts, full and partial cut		
Printer Buffer	256		
Near-Paper-End Sensor	message serial to host		
Paper Exit Sensor	optional, message serial to host		
Print Speed	up to 200 mm/s		up to 150 mm/s
Paper / Print Width	51-61 / 56 mm	60-82 / 80 mm	82.5 / 81.2 mm
Supply Voltage	11-26.5 V		24V ± 10%
Max. Current Standby	80 mA		
Max. Printing Current app.	3 - 12 A adjustable by command		
Interfaces	RS232 bis 460kbps, USB		
Baud Rates (Standard: Bold)	1200/2400/4800/9600/19200/38400/57600/**115200** (**115, n, 8, 1**)/230400/460800 Mode: selectable: 7, 8 data bits / 1, 2 stop bit / none, odd, even parity Handshake: **Hardware handshake and XON / XOFF**		
Data Compression	factor approx. 3:1 (for graphic commands); PC-compatible; Windows® driver		
Character Sets, CPL	28, 56	40, 80	60, 120
Bar Code	Code39, EAN13, 2aus5 interleaved (optional: Code128c, PDF417 or UPC-A)		
Environment	-10°C bis +60°C with specified paper; -20°C bis + 70°C on request 10% to 80% rel. humidity, no condensation		
MTBF*)	150 km paper cycle		
Roll Diameter	150 mm (on request up to 300 mm)		
Paper Thickness	60 - 220 µm		80 - 180 µm (60 - 200 µm on request)
Housing	stainless steel		
Standards	CE: see declaration of conformity		
Weight incl. Paper Roll	550 g	800 g	
Dimensions without Holder	100 x 85 x 43 mm	113 x 92.5 x 50 mm	

*) according to mechanism testing conditions of the manufacturer

16 Mechanical dimensions