GETT.**PRODUCTS**

TouchPanel PC-BlackLine 21,5"/18,5"
Intel Core i5/Intel Celeron
IPBK001 | IPBK002 | IPBK003 | IPBK004

Operating Instructions

1 Safety informations

1.1 Intended use

The touch panel is intended for use as a visualization tool for the control functions for machines and production facilities in a wide variety of fields of application.

It is also necessary to install user software for the specific machine.

Any use, which goes beyond this, must be regarded as unauthorized.

1.2 Qualifications

Qualified experts are the only people who may connect and set up the touch panel at its place of use.

1.3 Safe mounting

The touch panel must be mounted safely in a position that is suitable to operate it. You must ensure that it is possible to comply with the ambient conditions in line with the technical data. You must particularly provide adequate distance from other components in order to guarantee an exchange of air to cool the touch panel.

1.4 Electrical work

You must switch off the machine to install the touch panel and separate it from any electricity supply too in ensure that any work performed is absolutely safe.

The machine must remain switched off during the entire installation process and remain isolated from any electricity supply.

You must follow all the instructions issued by the machine's manufacturer and the machine's operator.

1.5 Opening the housing

You may not under any circumstances open the housing. If there is a fault or you need to upgrade the touch panel, you must contact GETT or a trade partner.

1.6 IT Safety

Please observe the product's operating instructions for safe commissioning.

Select an operating system password to prevent unauthorised access.

If passwords are used and they are in a state other than the factory setting, all passwords must be unique per unit or set by the user.

Follow the rules and regulations for creating a secure password.

Remember the user name and password of the operating system. Without them, the product is inaccessible.

Before operating the system, please make sure that the appropriate software is installed and configured. This can prevent unexpected operation.

Install all updates and make sure that the browser, operating system and application are up to date.

We recommend that you install a firewall and keep it updated.

To be able to detect vulnerabilities in your IT infrastructure, implement a report management procedure.

Ensure that your operating system environment is protected from malicious software and viruses.

Install all updates and make sure virus definitions are up to date.

Store personal and sensitive data in a safe place.

Ensure that your relevant data is backed up with a backup strategy.

Ensure that a way is available to easily remove personal data from the device and associated services.

The unit must use best encryption practices for secure communication.

Ensure that no unauthorised media are used on the device.

Minimise open attack surfaces, e.g. by disabling all unused interfaces.

Please ensure that your company's internal security policies have been implemented in the context of the use of the device.

Ensure that the software integrity on the unit or connected units is guaranteed.
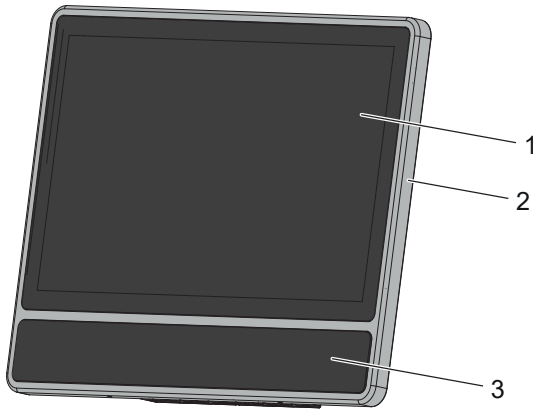
2   The touch panel at a glance

Fig.1: Front

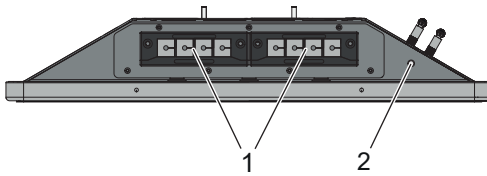|			
1	Touch screen	3	Control panel with six buttons
2	Aluminum frame		

Fig.2: Bottom

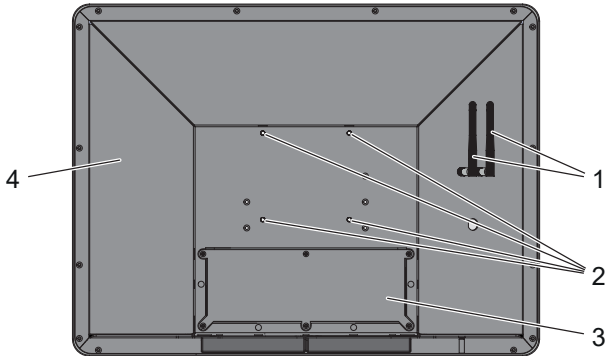|			
1	Cable feedthroughs	2	Earthing bolt

Fig.3: Rear

1	Antennas for the Wi-Fi module (optional)	3	Top housing cover
2	Threaded bolt M5×10 for VESA mounting 100 × 100 mm	4	Rating plate

Fig.4: Rating plate

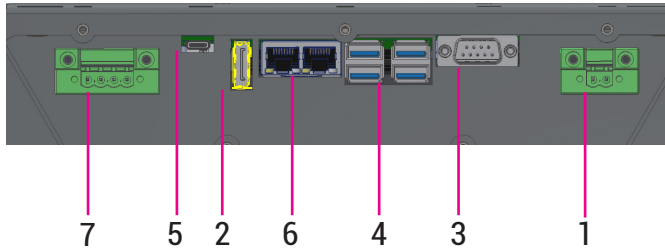|			
1	Manufacturer	4	Serial number
2	QR code for the GETT website	5	Article number
3	Product description		

2.1 Connections inside

Fig.5: Connections inside

Function	Number	Type	No.
Electricity supply	1	MSTB 2,5/2-STF PCB socket	1
Connection for second monitor	1	Display Port	2
Serial COM1 port	1	RS-232/422/485 Port	3
USB port	4	USB 3.0 Typ A	4
	1	USB 3.1 Typ C	5
Ethernet port	2	RJ45 GbE LAN	6
Connection for external emergency stop	1	MSTB 2,5/4-STF PCB socket	7

3 Equipment and options

The touch panel has a replaceable display, which is inserted into the aluminum frame behind the touch screen that is made of glass. An embedded single board computer with a Windows operating system is installed inside the housing.

There is a control panel below the touch screen with six capacitive buttons (F1 – F6) and they can be adapted and supplemented by an emergency stop button. Cooling takes place passively across the housing surface. The operator is able to configure the integrated RFID module.

Electricity is supplied to the touch panel from the machine via a 24V connection.

The following can be ordered from the factory as optional equipment as part of the order:

▪ A Wi-Fi module with antennas,
▪ An emergency stop button on the control panel.

4   Mounting

There are various ways of mounting the touch panel:

▪ On a supporting arm with a VESA mounting (100 x 100 mm, M5)

▪ On a front board or metal board with a mounting prepared by the operator – e.g. in a switch cupboard door.

1. Allow the touch panel to adapt to the ambient conditions for at least one hour before mounting it.
2. Select a place with enough distance from other components for mounting the touch panel so as to be able to guarantee an exchange of air for cooling purposes (at least 10 cm).
3. Attach the four threaded bolts into the drilled holes for the VESA mounting on the rear of the touch panel.
4. Connect the touch panel to the VESA mounting with four nuts and washers.

5   Electrical connection

1. Connect an earth cable to the earthing bolt.
2. Open the top cover on the housing.
3. Remove the plugs from the cable feedthroughs that you require.
4. Feed the cables for the electricity supply and the data transmission through the cable feedthroughs. It may be necessary to remove the connecting elements from the cables.
5. If necessary, finish the cables with the connecting elements that are supplied.
6. Attach the connections to the relevant sockets.
7. Clamp the plugs to the cables so that the groove is on the side.

8. Push the plugs into the cable feedthroughs. Make sure that the cables are not subject to any tension.
9. Close the upper cover on the housing.

6 Software installation and configuration

Depending on the equipment and options on the touch panel, you can install or configure additional software when first putting the unit into service.

6.1 Driver for the single board computer

You can find the **IB919** folder with the files required for installation by using the following path: **C:\IB919** ..

6.2 Driver for the RFID module (optional)

You can find the **Metriax_RFID** folder with the files required for installation by using the following path: **C:\Metriax_RFID** .

6.3 Coding for the buttons on the control panel:

Button	Button Code	Notes
F1	F1	
F2	F2	
F3	F3	The codes can be adapted by means of a modification when you place your order.
F4	F4	
F5	F5	
F6	F6	

6.4 Configuring the cut-off temperature

The cut-off temperature for protecting from overheating on the touch panel has been set at 90°C at the factory. In certain conditions and in agreement with the manufacturer, the cut-off temperature can be adapted.

You can adapt the cut-off temperature by accessing the BIOS firmware on the operating system and selecting the **Advanced** tab. You can enter the agreed cut-off temperature through the **Hardware Monitor** menu option.

7 Cleaning

Switch off the touch panel and isolate it from any electricity supply too before you start any cleaning work.

Clean the touch panel with a soft, damp cloth.

You must not use any abrasive cloths or sponges to ensure that the surfaces are not scratched. This is also the reason why you should not use any corrosive cleaning agents, for example, scouring cream.

You must not clean the touch panel with running water and never use a high-pressure cleaner on it so that no moisture makes its way into the touch panel.

8 Repair work

If a fault occurs, the display, the emergency stop button, the control panel and the single board computer can all be individually replaced.

Please contact GETT or a trade partner to replace any individual parts or refit the touch panel.

Products must be returned in their original packaging. If you no longer have the packaging, please ask GETT or our contractual partners for it.

9 Faults

If the measures mentioned below do not eliminate the faults or if other faults occur, which are not listed here, please contact GETT or a trade partner.

Fault	Cause	Measure
It is not possible to switch on the touch panel.	The electricity supply has not been correctly connected.	▪ Check the connection for the electricity supply.
	The emergency stop button has been pressed.	▪ Unlock the emergency stop button by turning it to the left or right. ▪ Check all the other emergency stop buttons on the machine.
The touch screen on the touch panel does not respond to any touch.	The touch screen sensor is faulty.	▪ Please contact GETT or a trade partner to have the touch screen replaced.
The display is hard to read or is too dark.	The brightness has been wrongly set.	▪ Increase the brightness of the display. Reduce the amount of light entering the surrounding area. ▪ Set the brightness to a medium setting for permanent operations to prevent it from reaching the end of its operating life too soon.

10 Disposal

The symbol on the left indicates that the touch panel must not be disposed of in unsorted domestic garbage or as commercial waste.

Dispose of the touch panel using the special facilities made available for old electronic devices in line with the regional regulations. If you want GETT or a trade partner to dispose of the unit, please contact them to arrange this.

Please delete all the personal data (login data) from the data storage system inside the touch penal before disposing of the unit.

11   Specification

Specification		
Material		Steel, aluminum, glass
Size (width × height × depth)	18,5" display	466 × 351 × 91,5 mm
	21,5" display	540 × 407 × 92 mm
Weight	18,5" display	8,0 kg
	21,5" display	10,0 kg
Screen size		21,5" 18,5"
Display resolution 18,5"- and 21,5" display		1920 × 1080 pixels, full HD
Brightness		300 cd/m²
View angle (horizontal, vertical)		89°, 89°
Environmental conditions for operation: Temperature Relative humidity		 0 °C ~ 50 °C Non-condensing
Environmental conditions for storage: Temperature Relative humidity		 −10 °C ~ 70 °C Non-condensing
Protection class		IP65 (front) IP54 (rear)
Operating voltage		24 V DC
Power rating		100 W
Operating system		Windows 10/11 Pro
Processor		64-Bit-x86 Intel Core i5 64-Bit-x86 Intel Celeron
Standard hard drive memory		Typ NVME PCIE GEN3 SSD
		128 GB
Standard main memory		8 GB
Extension		Maximum 32 GB NON ECC
VESA munting (width × height)		100 × 100 mm, threaded bolts M5×10

Specification	
Service life	appr. 7 years, depending on usage

11.1 CE marking

The device has been tested in line with the current EU Directives and the associated harmonized standards. All required information for CE marking can be found in the EU declaration of conformity for the product.

11.2 RoHS

The device meets the requirements specified in the EU's RoHS Directive 2011/65/EU.

11.3 REACH

The device meets the requirements of Regulation (EC) no. 1907/2006 regarding the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH).

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