Due to technological advances, the manufacturer reserves the right to modify the characteristics of this product without notice.

* contact your reseller to know the compatible lightbars.
The safety of future users of this product depends on your installation. Therefore, it is critical that you read, understand, and follow all instructions contained in this installation guide.

Some instructions and precautions that must be applied are listed below (see page 3 too):

- To install this equipment correctly, it is essential to have the understanding and the technical skills for the installation of automobile electronics.
- Place this installation guide in a safe place and refer to it when necessary and for each installation. This manual must be delivered to the end user.
- Before wiring, disconnect the cable from the negative battery terminal. Failure to do so may result in electric shock or injury due to electrical shorts. Connect again the cable on the negative battery terminal once the installation is completely finished.
- Use only in cars with a 12 or 24 volt negative ground (Check with your car manufacturer if you are not sure). Failure to do so may result in fire, etc.
- The IDEATEC system must be powered by a DC voltage between +10V and 30V. Use of AC voltage or DC voltage greater than +30V can result in property damage, fire hazard, serious injury or fatal injury to yourself and/or others.
- Never install any devices or accessories inside the airbag deployment area. Such installation might reduce the effectiveness of the airbag or prevent it from being deployed. It can also potentially damage or dislodge the device, causing serious or fatal injuries.
- Installation of the equipment must comply with local and national electrical codes.
- It is imperative to dimension correctly all wires installed and connected to the positive battery terminal (see the chart on page 3) and protected by a proper fuse placed as close as possible to the battery.
- To ensure a correct operation of the device installed, it is necessary to make a perfect connection to the negative terminal. The negative output of the device must be connected to the negative terminal of the battery as directly as possible. The same applies to any elements controlled by the installed device.
- Do not allow cables to become entangled in surrounding objects. Arrange wiring and cables in compliance with the manual to prevent obstructions when driving. Cables or wiring that obstruct or hang up on places such as the steering wheel, shift lever, brake pedals, etc. can be extremely hazardous.
- Position the cables in such a way that they can never be damaged by vehicle vibrations or by impact (metal edge in direct proximity, mechanical stress on the cable, etc.). Also make sure that all users of the vehicle can never damage the cables directly or indirectly.
- Make sure that none of the vehicle's original controls are affected by the installed device.
- Do not install the monitor near the passenger seat air bag. If the unit is not installed correctly the air bag may not function correctly and when triggered the air bag may cause the monitor to spring upwards causing an accident and injuries.
- If you need to drill a hole in the dashboard, make sure that both sides are completely free to avoid damaging the vehicle.
- Always install the console or the central unit in a ventilated area, and never close to a heat source. This area must also be protected against dust and moisture.
- Failure to follow safety guidelines and instructions may cause material damages, injuries, or death to you and/or to others.
- If you have problems, do not attempt to repair the unit yourself. Return it to your IDEATEC dealer for servicing.
1. **VigiLink**

**Safety and precautions (continued)**

- All IDEATEC metal cases must be grounded correctly to the negative battery. Never defeat the ground conductor or operate in the absence of a suitably installed ground conductor. Ideatec provides a kit REF.P0035F0034 to make one of the flanges of the Ideatec system as shown in figure 1. The tooth washers must be positioned on either side of the terminal as shown in figure 1. The terminal provided allows a cable cross-section of 4 mm² to 6 mm², however Ideatec SA requires the placement of a 6 mm² cable with a maximum length of 50 cm.

![Important Warning]

**IMPORTANT WARNING**

The metal housing of this equipment must be properly grounded. Never operate the equipment in the absence of a suitably installed ground conductor. IRead the user guide before installation!

IDEATEC S.A. assumes no liability and gives the right to refuse any warranty if one or more of the recommendations on page 2 and 3 are not being followed.

2. **VigiLink**

**Dimensioning of electric wires**

It is essential and mandatory to dimension electrical wires correctly according to the currents used and the length of the wires. Failure to dimension correctly may cause fire inside the vehicle. The product is equipped with static relay outputs only. The use of static relays has several advantages, among which the suppression of external fuses.

The cable connected to the + terminal of the VigiLink must be protected by a fuse calculated on the basis of the total current consumed according to the configuration (maximum 40A). Its section must be sufficient to support this current.

To fix the wire size, you must follow three essential precautions:

- Know or determine the maximum current consumed at each static output.
- Setup each static output used to limit the maximum current from 0,5 to 10A thanks to the software provided by IDEATEC S.A.
- Select the wire gauge according to its length and the current absorbed using the chart below:

<table>
<thead>
<tr>
<th>Fils mm²</th>
<th>AWG</th>
<th>5A</th>
<th>10A</th>
<th>15A</th>
<th>20A</th>
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**ABACUS FOR THE DIMENSIONING OF ELECTRIC WIRES**

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**MAXIMUM AUTHORIZED CURRENT IN THE WIRES**

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</tbody>
</table>

**Figure 1**

IDEATEC S.A. - Z.I. de Noville-les-Bois - rue Léopold Génicot 19A - 5380 Femmelont, Belgium - Tel: +32(0)81 42 00 10 - Fax: +32(0)81 57 91 70 - E-mail: info@ideatec.be

![Fig.1]

<table>
<thead>
<tr>
<th>Fils mm²</th>
<th>AWG</th>
<th>5A</th>
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</table>

- Insufficient
3. **VigiLink**

### 3.1 Main Features

The VIGILINK device is made to control all electrical equipment added in a vehicle. Its installation is fully independent from the original circuit. The system is fully configurable via the software Console Express and provides a lot of advantages, automation and special functions:

- **Simplified mounting**: only one bus cable between the power module and the console/interface.

- **CANBUS Control**: The main feature of the VIGILINK is the full control of CANBUS lightbar, installation simplified.

- **Siren amplifier/generator**: included inside the central unit and compatible with speakers from 8 to 16 ohms. The output peak to peak voltage for the speaker of the siren is configurable.

- **Each positive output can deliver up to 10Amps.**

- **Positive static power output**: full protected against overload and short-circuit. The current for each output must also be limited separately by software.

- **The grey console (foot mounting)**: is delivered with its own multi-directional foot mounting to give the best viewing angle for the user.

- **The backlighting enhances the visibility of the key**. Thanks to the light sensor on each console, the backlighting brightness varies according to the outdoor light intensity: maximum brightness in a sunny environment and less brightness in the dark to avoid blinding the user.

- **A lot of interlock functions are available** like the blue lights/siren interlock, grill lights/blue light interlock, keys conditions, etc.

- **Automatic standby**: available with configurable conditions and timing to protect the battery.

- **Visual and acoustic alarms for immediate pre-diagnosis**: overload, openload, bus communication, etc.

- **The VIGILINK is fully configurable** with the user-friendly SpeedFitter software.

- **Flashing box function included**: 30, 60 or 90 cycles/min.
3.1 Main Features (continued)

- **Hourmeter**
  - Allows you to measure the use of some equipments.

- **Virtual Inputs**
  - Virtual input is a parameter made by the combination of 2 others parameters. Each input parameter can be reversed and the 2 parameters can be combined by AND, OR or XOR function. 32 virtual inputs are available. A virtual input can be a parameter for another virtual input too.
  - Example: signal activated when ignition is ON and handbrake is activated or a door is open.

- **Loadshedding**
  - Configurable for each positive output to save the battery. Configurable with two different voltage levels.

- **Hourmeter**
  - To determine Time ON and Time OFF of the output signal, used for a gun lock for example.

- **Virtual Inputs**
  - To activate several functions at the same time by pressing only one key.

- **Heat/AC Controller**
  - Thanks to the optional Unitherm-HD interface, VIGILINK is also an interface to control heating/airco systems.
  - Unitherm-HD is compatible with heating systems like Webasto, Eberspächer, Kalori and usual heater air exchange / hot water heating systems.

- **Coupling Battery**
  - Thanks to analog input, the main battery of the vehicle can be monitored by VIGILINK system. Its voltage can be compared to the voltage of the auxiliary battery and one of the VIGILINK output can be used to drive a power relay to connect/disconnect the 2 batteries together.

- **Messages**
  - The VIGILINK allows you to show messages (status, alarm, etc.) on the screen. The VFI interface also broadcast vocal messages additionally to messages displayed on the screen.

- **Log File Recording**
  - As a black box, all parameters changes, chosen during the configuration, are recorded. This change of status can be read by software SpeedFitter.

- **Gloves Compatible**
  - Instead of touch screen system for the mass market, the touch screen consoles VIGILINK can be used with gloves to meet the specific requirements of some applications (ambulance, fire department, etc).

- **Embedded Pictograms**
  - More than 500x pictograms are available to configure the keys of the console. You can also create your own text pictogram.

- **CANbus Interface**
  - Canbus interface included inside the VIGILINK central unit allows you to read a lot of vehicle status directly from the CAN network of the vehicle with only 2 wires.

- **Function Test**
  - The Walk Test function allows the driver to check all the outputs of the VIGILINK step by step to be sure that all the equipments connected to the VIGILINK are working well.
3.2 Basic Hardware Configuration

These configuration is simple and is made with VIGILINK central Unit and one foot mounting touchscreen console. The CANBUS connexion with the lightbar is showned on the diagram here below.

The minimum configuration therefore requires at least the VIGILINK Central Unit and a console.
3. **VigiLink**

3.3 VIGILINK Hardware Configuration With Extensions

This more complex configuration uses a VIGILINK Central Unit, a touchscreen console, a FSP-9K console, the EPM-103 extended module and the VFI, Unitherm-HD and ADI interfaces.

The CANBUS lightbar connection is not shown in the diagram below but is available.
4. **VigiLink**

### Elements Identification

#### 4.1 Touchscreen Console Foot Mounting - REF.P0050F0006

<table>
<thead>
<tr>
<th>Item</th>
<th>P/N</th>
<th>DESCRIPTION</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
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<td>P0040F0079</td>
<td>Touchscreen console foot mount.</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>P0039F0003</td>
<td>Foot mounting kit</td>
<td>1</td>
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</table>

- Provided with 5m BUS cable - REF.P0020F0027/FTP

#### 4.2 Touchscreen Console Panel Mounting - REF.P0050F0007

<table>
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<td>3</td>
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- Provided with 5m BUS cable - REF.P0020F0027/FTP

---

**In order to ensure perfect operation, only screws supplied by the manufacturer are accepted. Otherwise, unless authorised in writing, the manufacturer will not accept any warranty or liability on the equipment installed.**
## 4. Vigilink Elements identification (continued)

### 4.3 FSP-4K Console - REF.P0050F0106

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<td>P0039F0007</td>
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Provided with 5m BUS cable - REF.P0020F0027/FTP

![Diagram of FSP-4K Console]

### 4.4 FSP-6K Console - REF.P0050F0107

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Provided with 5m BUS cable - REF.P0020F0027/FTP

![Diagram of FSP-6K Console]

In order to ensure perfect operation, only screws supplied by the manufacturer are accepted. Otherwise, unless authorised in writing, the manufacturer will not accept any warranty or liability on the equipment installed.
### 4. VigiLink

#### Elements identification (continued)

**4.5 FSP-9K Console - REF.P0050F0108**

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![FSP-9K Console diagram]

Provided with 5m BUS cable - REF.P0020F0027/FTP

⚠️ In order to ensure perfect operation, only screws supplied by the manufacturer are accepted. Otherwise, unless authorised in writing, the manufacturer will not accept any warranty or liability on the equipment installed.

**4.6 FSP Pictograms + Colors Collection - REF.P0039F0007**

Each FSP console is provided with pictograms + colors

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<th>REF.A6800B0101</th>
</tr>
</thead>
<tbody>
<tr>
<td>![Pictogram image]</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>REF.A6800B0102</th>
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</thead>
<tbody>
<tr>
<td>![Pictogram image]</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>REF.A6800B0103</th>
</tr>
</thead>
<tbody>
<tr>
<td>![Pictogram image]</td>
</tr>
</tbody>
</table>

---

IDEATEC S.A. - Z.I. de Noville-les-Bois - rue Léopold Génicot 19A - 5380 Fernelmont, Belgium - Tel: +32(0)81 42 00 10 - Fax: +32(0)81 57 91 70 - E-mail: info@ideatec.be
4. VigiLink

4.7 OpenLink Module - REF.P0050F0055

<table>
<thead>
<tr>
<th>Item</th>
<th>P/N</th>
<th>DESCRIPTION</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>P0040F0071</td>
<td>OpenLink Module</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>P0035F0020</td>
<td>Molex Microfit 4p. kit</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>P0035F0019</td>
<td>Molex Minifit 2p. kit</td>
<td>1</td>
</tr>
</tbody>
</table>

Provided with 1m BUS cable - REF.P0020F0042

4.8 VIGILINK Central Unit - REF.P0050F0004

<table>
<thead>
<tr>
<th>Item</th>
<th>P/N</th>
<th>DESCRIPTION</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>P0040F0077</td>
<td>VIGILINK Central Unit</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>P0035F0021</td>
<td>Kit Connectors AMPSEAL 14p + 23p + 39x crimp terminals</td>
<td>1</td>
</tr>
</tbody>
</table>

Option: Pre-wired AMPSEAL connectors

<table>
<thead>
<tr>
<th>Item</th>
<th>P/N</th>
<th>DESCRIPTION</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>3'</td>
<td>P0020F0045</td>
<td>Pre-wired AMPSEAL connector 14 ways</td>
<td>1</td>
</tr>
<tr>
<td>4'</td>
<td>P0020F0047</td>
<td>Pre-wired AMPSEAL connector 23 ways</td>
<td>1</td>
</tr>
</tbody>
</table>
4. **VigiLink**

4.9 2x RJ45 Bus Cable

- **Standard or special option order**:
  - Length = 1 meter - P/N: P0020F0042
  - Length = 5 meters - P/N: P0020F0027/FTP
  - Length = 6 meters - P/N: P0020F0043
  - Length = 8 meters - P/N: P0020F0028
  - Length = 10 meters - P/N: P0020F0029
  - Length = 15 meters - P/N: P0020F0044

- **Right Connector**
  - Length = 5 meters - P/N: P0020F0097
  - Length = 8 meters - P/N: P0020F0098

- **In order to ensure perfect operation, only BUS cables assembled and supplied by the manufacturer are accepted. Otherwise, unless authorised in writing, the manufacturer will not accept any warranty or liability on the equipment installed.**

4.10 Connectors AMPSEAL 14P., 23P. & Crimp contacts

The AMPSEAL connectors (14 & 23 positions) are necessary to connect inputs/outputs of the VIGILINK. Their contacts must be crimped with a suitable tool (see references below).

<table>
<thead>
<tr>
<th>Qty</th>
<th>Description</th>
<th>AMP Reference</th>
<th>Ref. Tool AMP</th>
</tr>
</thead>
<tbody>
<tr>
<td>39</td>
<td>Gold Crimp terminal (AWG 20-24)</td>
<td>770520-1</td>
<td>Crimp Tool 58529-1</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>With Die Assembly 58529-2</td>
</tr>
<tr>
<td>1</td>
<td>Connector AMPSEAL 14P</td>
<td>776273-1</td>
<td>No Pin Extractor needed</td>
</tr>
<tr>
<td>1</td>
<td>Connector AMPSEAL 23P</td>
<td>770680-1</td>
<td>No Pin Extractor needed</td>
</tr>
</tbody>
</table>
### 4.11 UniTherm-HD Interface + Sensor - REF.P0050F0078

<table>
<thead>
<tr>
<th>Item</th>
<th>P/N</th>
<th>DESCRIPTION</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>P0040F0043</td>
<td>Complete UniTherm-HD interface</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>P0020F0073</td>
<td>R.F. Sensor Box DS-18S20</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>P0035F0005</td>
<td>Kit Connectors 12 &amp; 6 screws terminal</td>
<td>1</td>
</tr>
</tbody>
</table>

Provided with 1m BUS cable - REF.P0020F0042

### 4.12 Voice Feedback Interface VFI - REF.P0050F0057

<table>
<thead>
<tr>
<th>Item</th>
<th>P/N</th>
<th>DESCRIPTION</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>P0040F0076</td>
<td>VFI Interface</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>P0035F0019</td>
<td>Molex Minifit 2p. Kit</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>P0035F0020</td>
<td>Molex Microfit 4p. Kit</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>A1700B0007</td>
<td>SD Card 2Gb</td>
<td>1</td>
</tr>
</tbody>
</table>

Provided with 1m BUS cable - REF.P0020F0042
4. VigiLink

4.13 EPM-103 - Extended Power Module - REF.P0050F0058

<table>
<thead>
<tr>
<th>Item</th>
<th>P/N</th>
<th>DESCRIPTION</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>P0040F0085</td>
<td>EPM-103 Module</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>P0035F0015</td>
<td>Kit Connectors AMPSEAL 14p + 15x crimp terminals</td>
<td>1</td>
</tr>
</tbody>
</table>

Option: Pre-wired AMPSEAL connectors

<table>
<thead>
<tr>
<th>Item</th>
<th>P/N</th>
<th>DESCRIPTION</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>3'</td>
<td>P0050F0058/H</td>
<td>EPM-13 Module with the harnesses included</td>
<td>1</td>
</tr>
<tr>
<td>3'</td>
<td>P0020F0049</td>
<td>Pre-wired AMPSEAL connector 14 ways</td>
<td>1</td>
</tr>
</tbody>
</table>

Provided with 1m BUS cable - REF.P0020F0042

4.14 ADI - Interface Analog to Digital Inputs - REF.P0050F0070

<table>
<thead>
<tr>
<th>Item</th>
<th>P/N</th>
<th>DESCRIPTION</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>P0040F0087</td>
<td>ADI Interface</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>P0035F0019</td>
<td>Molex Minifit 2p. Kit</td>
<td>1</td>
</tr>
</tbody>
</table>

Provided with 1m BUS cable - REF.P0020F0042
5. **VigiLink**

The safety of future users of this product depends on your installation. Therefore, it is critical that you read, understand, and follow all instructions contained in this installation guide.

### 5.1 Touchscreen Console - Foot Mounting Setting

- Preassemble the console without blocking the 2 hexagonal head screws.
- Choose the best place to install the console on the dashboard.
- Locate and note the 6 fixation holes at the base of the foot (page 18).
- Fix the base and position the console perfectly.
- Block the 2 hexagonal head screws.
- Attach the cover to the back of the foot with the screw provided.
- Place the small black cap on the head of the screw on the back.

#### Use only screws, nuts, and washers provided by the manufacturer.

Using other, longer screws in the back of the console may seriously damage its internal parts. The manufacturer cannot assure any warranty or accept liability if other fixing elements or screw, nuts, and washers are used to install the console.

### 5.2 Touchscreen Console Panel Mounting & FSP

- Fix the console only with the screws provided.
- **ATTENTION:** The force applied to tighten the screw depends on wall type. It must never be too high. The manufacturer will not provide repairs under warranty if the top side of the console is broken due to exceeded tightening force.

#### Use a flat surface to mount the console.

If the surface is not flat, water protection for touchscreen console cannot be reached and the manufacturer cannot assure any warranty in case of damage due to water or liquid intrusion.
The safety of future users of this product depends on your installation. Therefore, it is critical that you read, understand, and follow all instructions contained in this installation guide.

5.3 Installing the VIGILINK Central Unit, EPM-103 Module, OpenLink, Unitherm-HD, VFI and ADI Interfaces

- Choose a flat surface and use appropriate fixation screws.
- Always install the console, central unit and interface in a ventilated area, and never close to a heat source.
- Take into account the size of the different connectors that will be added to the assembly.

Drilling template on pages 17-22

5.4 Bus Cable Plugging

- Take into account the space around the consoles & modules to be able to plug and unplug the BUS cable.

Do not attempt to enlarge the mounting holes.

Do not tighten the BUS cable especially near the connectors, you can damage the cable or the connector on the module/console. Ideatec S.A. cannot accept any warranty request if the cable is not installed following the special recommendations.
6. **VigiLink**

6.1 Controlling the Template Scale after Printing

ATTENTION THE DRILLING TEMPLATES WERE CREATED BY THE EDITOR USING A 1:1 SCALE. FOR THIS REASON, SOME PRINTERS OR PRINTING SOFTWARE MAY CAUSE DISTORTIONS ON PRINTING. YOU SHOULD VERIFY THE SCALE BEFORE USING THE TEMPLATES BELOW.

The rulers below allow you to control the scale on the two axes:

![Check the Scale (X & Y) After Printing](image-url)
6.2 Touchscreen Console - Foot Mounting

![Diagram of Touchscreen Console - Foot Mounting]

**CHECK THE SCALE (X & Y) AFTER PRINTING**

6.3 Touchscreen Console - Panel Mounting

![Diagram of Touchscreen Console - Panel Mounting]

**CHECK THE SCALE (X & Y) AFTER PRINTING**
6.4 Central Unit

CHECK THE SCALE (X & Y) AFTER PRINTING

Durchmesser 5mm

Höhe: 44,75 mm

104,60 mm

164,43 mm

176,42 mm

85,00 mm
6. **VigiLink**

Drilling templates (continued)

6.5 UniTherm-HD, OpenLink & VFI Interfaces

![Diagram of UniTherm-HD, OpenLink & VFI Interfaces]

**Height:** 44.75 mm

CHECK THE SCALE (X & Y) AFTER PRINTING

6.6 FSP-4K Console

![Diagram of FSP-4K Console]
6. **VigiLink**

6.7 FSP-6K Console

![](image)

6.8 FSP-9K Console

![](image)
6.9 ADI Interface

![Diagram of ADI Interface]

**DIA. 4.5mm**

- **CHECK THE SCALE (X & Y) AFTER PRINTING**

6.10 EPM-103 module

![Diagram of EPM-103 module]

- **Höhe : 44,75 mm**
- **CHECK THE SCALE (X & Y) AFTER PRINTING**
### 7.1 Touchscreen Console - Foot Mounting

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Voltage</td>
<td>+5VDC ±5% supplied by BUS cable</td>
</tr>
<tr>
<td>Operating Current</td>
<td>75mA</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>from -25°C to +60°C</td>
</tr>
<tr>
<td>Connexion Type</td>
<td>RJ45 (non-crossed)</td>
</tr>
<tr>
<td>Weight</td>
<td>185 g.</td>
</tr>
<tr>
<td>Dimensions (L x W x D)</td>
<td>128 x 94 x 28 mm (without the foot)</td>
</tr>
<tr>
<td>Regl.10-05 Conformity</td>
<td>E13-10R-05 14483</td>
</tr>
<tr>
<td>Interactive Backlighting</td>
<td>Multidirectional Foot Mounting</td>
</tr>
</tbody>
</table>

### 7.2 Touchscreen Console - Panel Mounting

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Voltage</td>
<td>+5VDC ±5% supplied by BUS cable</td>
</tr>
<tr>
<td>Operating Current</td>
<td>75mA</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>from -25°C to +60°C</td>
</tr>
<tr>
<td>Connexion Type</td>
<td>RJ45 (non-crossed)</td>
</tr>
<tr>
<td>Weight</td>
<td>205 g.</td>
</tr>
<tr>
<td>Dimensions (L x W x D)</td>
<td>148 x 113 x 28 mm</td>
</tr>
<tr>
<td>Regl.10-05 Conformity</td>
<td>E13-10R-05 14483</td>
</tr>
</tbody>
</table>

### 7.3 FSP4K Console

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Voltage</td>
<td>+5VDC ±5% supplied by BUS cable</td>
</tr>
<tr>
<td>Operating Current</td>
<td>20mA</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>from -25°C to +60°C</td>
</tr>
<tr>
<td>Connexion Type</td>
<td>RJ45 (non-crossed)</td>
</tr>
<tr>
<td>Weight</td>
<td>52 g.</td>
</tr>
<tr>
<td>Dimensions (L x W x D)</td>
<td>125 x 37 x 29 mm</td>
</tr>
<tr>
<td>Regl.10-05 Conformity</td>
<td>E13-10R-05 14483</td>
</tr>
</tbody>
</table>

### 7.4 FSP6K Console

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Voltage</td>
<td>+5VDC ±5% supplied by BUS cable</td>
</tr>
<tr>
<td>Operating Current</td>
<td>21mA</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>from -25°C to +60°C</td>
</tr>
<tr>
<td>Connexion Type</td>
<td>RJ45 (non-crossed)</td>
</tr>
<tr>
<td>Weight</td>
<td>72 g.</td>
</tr>
<tr>
<td>Dimensions (L x W x D)</td>
<td>105 x 57 x 29 mm</td>
</tr>
<tr>
<td>Regl.10-05 Conformity</td>
<td>E13-10R-05 14483</td>
</tr>
</tbody>
</table>

Interactive Backlighting
7. Vigilink

7.5 FSP9K Console

- **Operating Voltage**: +5VDC ±5% supplied by BUS cable
- **Operating Current**: 23mA
- **Operating Temperature**: from -25°C to +60°C
- **Connexion Type**: RJ45 (non-crossed)
- **Weight**: 85 g
- **Dimensions (L x W x D)**: 125 x 57 x 29 mm
- **Regl.10-05 Conformity**: E13-10R-05 14483
- **Interactive Backlighting**: from 10VDC to 30VDC
- **Operative Current**: 100mA

7.6 OpenLink Interface

- **Operating Voltage**: from 10VDC to 30VDC
- **Operating Current**: 20mA
- **Operating Temperature**: from -25°C to +60°C
- **Connexion Type**: RJ45 (non-crossed)
- **Weight**: 256 g
- **Dimensions (L x W x D)**: 105 x 92 x 45 mm
- **Regl.10-05 Conformity**: E13-10R-05 14483
- **Interactive Backlighting**: from 10VDC to 30VDC

7.7 Vigilink Central Unit

- **Maximum Total Current**: 40A
- **Operating Voltage**: from 10VDC to 30VDC
- **Operating Current (without charge)**: 100mA
- **Quiescent Current**: 0mA
- **Number of Positive Outputs**: 6 static and protected
- **Maximum Current /pos. output**: 10A & Configurable
- **Number of Negative Outputs**: 3 static and protected
- **Maximum Current / Negative Output**: 1,5A
- **Number of Inputs**: 3 positive & 5 negative
- **Operating Temperature**: from -25°C to +60°C
- **Weight**: 600 g
- **Dimensions (L x W x D)**: 105 x 177 x 45 mm
- **Regl.10-05 Conformity**: E13-10R-05 14483

7.8 EPM-103 Module

See the EPM-103 user guide for details.

7.9 UNITHERM-HD Interface

See the Unitherm-HD user guide for details.

7.10 VFI Interface

See the VFI user guide for details.

7.11 ADI Interface

See the ADI user guide for details.
8. **VigiLink**

8.1 General Principle

The minimal configuration is composed by a Vigilink Central Unit and one controller on address 1, 2 or 3: one foot or panel mounting touchscreen console, 1, 2 or 3 consoles FSP or one module Openlink.

**THE FSP CONSOLES CONFIGURED FOR SAME ADDRESS MUST BE CONNECTED IN CHAIN MODE. CONSOLES SEQUENCE IS NOT IMPORTANT.**
8. **VigiLink**

8.2 **VigiLink Central Unit**

Terminals 22 and 23 on AMPSEAL 23p. of the VigiLink Central Unit must be connected directly to the negative of the battery with a wire of minimum 1mm² (AWG18) dimension. Terminals 16, 17 and 18 on AMPSEAL 23p. are connected to the positive of the battery through a fuse that will support the total current used by the equipment connected to the VigiLink Central Unit (MAX 40A). Remember that this fuse is required and must be placed as close to the battery as possible. The wires connected to the positive must have the correct size. In most installations, the total current absorbed is very high. For this reason, refer to the table on page 2 to dimension the gauge of the wires according to the currents and lengths.

---

8.3 **Data Connection**

Touch screen consoles, Central Unit, EPM-103, Unitherm-HD, OpenLink, VFI and ADI are connected on the same data bus network. Touch screen consoles, EPM-103, Unitherm-HD, OpenLink, VFI and ADI provide each 2x data bus connectors. Whatever these modules, these 2 connectors are linked together and allow you to connect 2 cables (see example on page 6).

See the particularities of the FSP console on page 33.
8.4 Vigilink Central Unit - 23p. connector (I/O)

The Vigilink Central Unit provides a number of 6 positive outputs and 3 negative outputs. Positive outputs are limited each to 10A and the negative outputs are limited to 1.5A.

<table>
<thead>
<tr>
<th>POS.</th>
<th>DESCRIPTION</th>
<th>DESCRIPTION OF THE FUNCTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Positive output nr.1</td>
<td>+ Ignition Input</td>
</tr>
<tr>
<td>2</td>
<td>Positive output nr.2</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Positive output nr.3</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Positive output nr.4</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Positive output nr.5</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Positive output nr.6</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Negative output nr.1</td>
<td>Canbus Connection CAN-L for status reading</td>
</tr>
<tr>
<td>8</td>
<td>Negative output nr.2</td>
<td>Canbus Connection CAN-H for status reading</td>
</tr>
<tr>
<td>9</td>
<td>Negative output nr.3</td>
<td>Canbus Connection CAN-L to control the lightbar</td>
</tr>
<tr>
<td>10</td>
<td>Positive input nr.1</td>
<td>Main Power Supply Positive Input</td>
</tr>
<tr>
<td>11</td>
<td>Negative input nr.2</td>
<td>Main Power Supply Positive Input</td>
</tr>
<tr>
<td>12</td>
<td>Positive input nr.3</td>
<td>Main Power Supply Positive Input</td>
</tr>
<tr>
<td>13</td>
<td>Negative input nr.4</td>
<td>Main Power Supply Positive Input</td>
</tr>
<tr>
<td>14</td>
<td>CANBUS L - Chassis</td>
<td>CANBUS Connection CAN-L for status reading</td>
</tr>
<tr>
<td>15</td>
<td>CANBUS H - Chassis</td>
<td>CANBUS Connection CAN-H for status reading</td>
</tr>
<tr>
<td>16</td>
<td>Main Power</td>
<td>Main Power Supply Positive Input</td>
</tr>
<tr>
<td>17</td>
<td>Main Power</td>
<td>Main Power Supply Positive Input</td>
</tr>
<tr>
<td>18</td>
<td>Main Power</td>
<td>Main Power Supply Positive Input</td>
</tr>
<tr>
<td>19</td>
<td>CANBUS L - Lightbar</td>
<td>CANBUS Connection CAN-L to control the lightbar</td>
</tr>
<tr>
<td>20</td>
<td>CANBUS H - Lightbar</td>
<td>CANBUS Connection CAN-L to control the lightbar</td>
</tr>
<tr>
<td>21</td>
<td>Analog Input</td>
<td>Ground connected to &lt;-&gt; battery</td>
</tr>
<tr>
<td>22</td>
<td>GND POWER</td>
<td>Ground connected to &lt;-&gt; battery</td>
</tr>
<tr>
<td>23</td>
<td>GND POWER</td>
<td>Ground connected to &lt;-&gt; battery</td>
</tr>
</tbody>
</table>
8. **Vigilink**

### 8.5 Vigilink Central Unit - 14p. connector (siren)

The Vigilink Central Unit includes a generator/amplifier siren. 14p. connector provides all the necessary connections for the siren and supplementary inputs.

![Diagram of 14p. connector]

<table>
<thead>
<tr>
<th>POS.</th>
<th>DESCRIPTION</th>
<th>DESCRIPTION OF THE FUNCTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Speaker output nr.1</td>
<td>Siren speaker output nr.1</td>
</tr>
<tr>
<td>2</td>
<td>Not used</td>
<td>N.U.</td>
</tr>
<tr>
<td>3</td>
<td>Power + for Micro PA</td>
<td>Positive power supply for microphone PA - optional</td>
</tr>
<tr>
<td>4</td>
<td>Negative output nr.4</td>
<td>Negative power supply for microphone PA - optional</td>
</tr>
<tr>
<td>5</td>
<td>Power - for Micro PA</td>
<td>Siren speaker output nr.2</td>
</tr>
<tr>
<td>6</td>
<td>Speaker output nr.2</td>
<td>Activator input for microphone PA - optional</td>
</tr>
<tr>
<td>7</td>
<td>Negative input nr.5</td>
<td>Audio signal from microphone PA - optional</td>
</tr>
<tr>
<td>8</td>
<td>PPT PA micro input</td>
<td>N.U.</td>
</tr>
<tr>
<td>9</td>
<td>Audio micro line 1</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Not used</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Negative input nr.6</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Negative input nr.7</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>Positive input nr.8</td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>Audio micro line 2</td>
<td>Audio signal from microphone PA - optional</td>
</tr>
</tbody>
</table>
8.6 Special Feature For Canbus

CANBUS connection offers you a lot of advantage for mounting and configuration flexibility. The CANBUS wiring has specific features to respect the original CANBUS network of the car.

The length of the cables between VIGILINK Central Unit and original CANBUS network of the car is maximum 4m. Canbus wires have to be twisted and shielded.

To know where to connect the CANBUS wires, please refer to the documentation of the vehicle manufacturer. Refer to the parameters available in the SpeedFitter to know which parameters are available for each vehicle.

IDEATEC S.A. CANNOT BE RESPONSIBLE OF ANY DAMAGE ON THE VEHICLE DUE TO CANBUS CONNECTION ESPECIALLY IF THE WIRES ARE NOT MOUNTED FOLLOWING THE INSTRUCTIONS
8. **VigiLink**

### 8.7 FSP Console

#### 8.7.1 FSP Console connection

The FSP console is connected to the Vigilink BUS and take place of one touchscreen console. One console can be replaced by 1, 2 or 3 FSP consoles.

The FSP console is equivalent to one page of the Vigilink touchscreen console. The example hereby show you a configuration with Central Unit, one touchscreen console - foot mounting and three FSP consoles.

![Diagram showing FSP console connection]

**Attention:**

- No Vigilink module, touchscreen console, EPM-103, Unitherm-HD, Openlink, VFI or ADI can be connected on the bus after FSP console(s).
8.7 FSP Console

8.7.2 FSP Console IN/OUT

It is important to respect IN/OUT connection on FSP console.
Rj45 « IN » can be connected on the VIGILINK bus or bus coming from another FSP.
RJ45 « OUT » can be connected only to another FSP (to « IN » connector).

Example:

Touchscreen Console - Foot Mounting

![Diagram of FSP Console IN/OUT connection]

- **VIGILINK DATA BUS**
- **FSP DATA BUS**

---

IDEATEC S.A. - Z.I. de Noville-les-Bois - rue Léopold Génicot 19A - 5380 Fernelmont, Belgium - Tel: +32(0)81 42 00 10 - Fax: +32(0)81 57 91 70 - E-mail: info@ideatec.be
8.8 OpenLink Interface

OpenLink Module takes the place of one console and is connected to the VIGILINK data bus like the touchscreen console.
8. VigiLink

8.9 EM-103 Module
Please refer to the EPM-103 module user guide.

8.10 UNITHERM-HD Interface
Please refer to the Unitherm-HD user guide.

8.11 VFI Interface
Please refer to the VFI user guide.

8.12 ADI Interface
Please refer to the ADI user guide.
9. **Vigilink**

### 9.1 Configuration Software

The IDEATEC **SpeedFitter** software allows you to configure your VIGILINK. This high-performance and user-friendly software allows you to configure all of the needed functions quickly and easily.

The **SpeedFitter** for Windows software can be downloaded from our website http://www.ideatec.be/en/our-products/software/. Once the file SpeedFitter is downloaded, simply run it and follow the instructions on the screen.

Attention, the user license is available for 3 computers from the same owner.

The installation requires an Internet connection. Remember, the software is not free.

See the SpeedFitter installation user guide on the Ideatec CD-ROM for software installation.

Additionally, to make updates easier, IDEATEC offers to each license owner free automatic updates.

---

**ATTENTION :** SpeedFitter is using JAVA language to compile the pictures before downloading then into the touchscreen Vigilink consoles. JAVA must be installed on your computer to download the pictures in the consoles.

JAVA tool is a freeware available on [www.java.com](http://www.java.com).
9.2 Touchscreen Console Configuration

9.2.1 Upload configuration file

To upload the configuration into the Vigilink from the computer, use an USB/Mini-USB cable (Fig.1). You can also use the USB connector on the Vigilink Central Unit in place of the mini-USB on the touchscreen console. Make sure that the Vigilink is well powered on and awake.

![Image of a USB/Mini-USB cable connected to a Vigilink]

9.2.2 Console address selection

Touchscreen console has the possibility to be used as console 1: address 1, console 2: address 2 or console 3: address 3 (see Fig.1 on page 42). To select the console address please connect the touchscreen console to the VIGILINK Central Unit and power up the system.

Press on the logo in the right corner of the touchscreen console as described on the picture (Fig.2) below:

![Image of a touchscreen console with a logo in the right corner]
9. **VigiLink**  

9.2 Touchscreen Console Configuration (continued)  

9.2.2 Console address selection (continued)

Then to access to the parameter section, please press on the logo [![Logo Icon](image1)] as described on the picture (Fig.1) below:

![Console Screen](image2)

**ICON ![Icon](image3) IS PROBABLY PROTECTED BY CODE AND DO NOT APPEAR ON SCREEN.**

So click on ![Code Icon](image4) icon to enter your access code then press on ![Validate Icon](image5) icon to validate.

![Enter Code](image6)

If icon ![User Icon](image7) does appear directly when pressing on ![Logo Icon](image1), you do not need to enter your code.
9.2 Touchscreen Console Configuration (continued)

9.2.2 Console address selection (continued)

Then to access to the address selection, please press on the logo as described on the picture (Fig.1) below:

![Fig.1]

Press on the console you wish to select. The text in green color indicates you what is the current address of the console. The red shape is your actual selection. Click on icon to validate your selection.

![Fig.2]

To go back to the control keys, click on one of the 3 pages access buttons.

⚠️ Do not select the same address for 2 or more consoles connected on the same Central Unit.
9.3 FSP Configuration

9.3.1 Keys functions

FSP are working exactly like the keys of the touchscreen consoles. Each page of the touchscreen console can provide 4, 6 or 9 keys. It is the same for the FSP + ON/OFF key. For each FSP you have to configure which page of which console you are « replacing » with the FSP (see dipswitches configuration on page ...). When you know this information, you just have to configure the keys of the FSP like the keys of the touchscreen console. See in the figure below, the correspondance of the keys numbers.
9.3 FSP Configuration

9.3.2 Pictograms

The keys of the FSP consoles are configurable for the pictograms thanks to the stickers provided. The backlight is white by default but you can change it thanks to the color stickers provided with the console.

To access to the keys, you have first to dismantle the front panel to release the protection membrane (Fig.1). To do it, please release the screws behind the console:

Then set the color sticker(s) BEFORE the pictogram stickers (Fig.2).

To ensure good adherence of the pictogram on each key, avoid touching the adhesive part of the pictograms and the key surface with your fingers.

Set all the pictograms then screw the front panel without forgetting the washers on the screws. Take care of the front panel position before fixing.

ATTENTION: The force applied to tighten the screw must never be higher than 6Nm. The manufacturer can not be able to provide repairs if the MAX 6Nm tightening force is exceeded.
9.3 FSP Configuration

9.3.3 FSP Protection

FSP consoles are provided with plastic protection to cover the electronic components. Please fix the plastic cover before connecting the console with bus cable.

Fig.1 FSP-4K  FSP-6K  FSP-9K
9.3 FSP Configuration (continued)

9.3.4 FSP Console Address Selection

Before installing the FSP console you have to configure which page of touchscreen console you replace. Behind the console you have some dipswitches to select the address of the console and the number of the page.

9.3.4.1 FSP-4K Console

DIPSWITCH SW1 = CONSOLE ADDRESS SELECTION
ADDRESS 1 : 1=OFF & 2=OFF
ADDRESS 2 : 1=ON & 2=OFF
ADDRESS 3 : 1=OFF & 2=ON

DIPSWITCH SW2 = PAGE SELECTION
PAGE 1 : 3=OFF & 4=OFF
PAGE 2 : 3=ON & 4=OFF
PAGE 3 : 3=OFF & 4=ON
9. VigiLink

9.3 FSP Configuration (continued)

9.3.4 FSP Console Address Selection (continued)

9.3.4.2 FSP-6K Console

CONSOLE ADDRESS SELECTION
ADDRESS 1: 1=OFF & 2=OFF
ADDRESS 2: 1=ON & 2=OFF
ADDRESS 3: 1=OFF & 2=ON

PAGE SELECTION
PAGE 1: 3=OFF & 4=OFF
PAGE 2: 3=ON & 4=OFF
PAGE 3: 3=OFF & 4=ON
9.3 FSP Configuration (continued)

9.3.4 FSP Console Address Selection (continued)

9.3.4.3 FSP-9K Console

CONSOLE ADDRESS SELECTION
ADDRESS 1 : 1=OFF & 2=OFF
ADDRESS 2 : 1=ON & 2=OFF
ADDRESS 3 : 1=OFF & 2=ON

PAGE SELECTION
PAGE 1 : 3=OFF & 4=OFF
PAGE 2 : 3=ON & 4=OFF
PAGE 3 : 3=OFF & 4=ON
9. OpenLink Module Configuration

As the OpenLink module takes place of one console, you have to give the right address to the module (address 1, 2 or 3). The default address is the address 1.

The red LED is the power supply monitoring. Do not take care about this LED for configuration.

One of the 3 LED’s shows you the address of the OpenLink module. The yellow LED on the left side indicates the address 1, the second one the address 2 and the third yellow LED indicates the address 3. The green LED is not used in the configuration process.

To go into the configuration mode, the OpenLink module has to be powered up since less than 2 minutes.

Release the plastic cover in front of the push button and make a long press with a pointed tool until the LED's of the RJ45 connectors are changing state (see below).

9.5 EPM-103 Module Configuration

Please refer to EPM-103 user guide for configuration.

9.6 Unitherm-HD Interface Configuration

Please refer to Unitherm-HD user guide for configuration.

9.7 VFI Interface Configuration

Please refer to VFI user guide for configuration.

9.8 ADI Interface Configuration

Please refer to ADI user guide for configuration.
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Your warranty

IDEATEC S.A hereby guarantees that this product is free from defects in material and workmanship for a period of two years from the date of purchase. If, during the warranty period, the product fails due to material or workmanship defects, IDEATEC S.A. will repair or replace (at IDEATEC S.A.’s discretion) the product free of charge, under the following conditions: IDEATEC S.A. reserves the right (at its own discretion) to replace parts of defective products or replace the products low value with new or factory refurbished parts or products. Conditions:

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2. This warranty does not reimburse or cover deterioration resulting from adaptations or adjustments to the product without prior written consent from IDEATEC S.A., mainly to respect technical or safety standards, national or local, in effect in all countries other than for those for which the product is known and manufactured.
3. This warranty does not apply if the model or serial number on the product has been altered, erased, suppressed, or illegible.
4. This warranty does not cover any of the following points:
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   b. Any adaptations or modifications aimed at improving the product such as it has been purchased and described in the operating instructions, without prior written agreement from IDEATEC S.A.;
   c. Transportation costs, home delivery costs, and all transport risks directly or indirectly associated with this product's warranty;
   d. Installation, removal, and reinstallation costs;
   e. Deterioration resulting from:
      1. Misuse, including, without limitation, (a) improper use of the product without respecting IDEATEC S.A.’s instructions on proper product usage and maintenance, and (b) installation or usage of the product against IDEATEC S.A.’s instructions or technical or safety standards in effect in the country where it is used, and (c) improper or incorrect software installation;
      2. Repairs performed by unauthorised repair persons or by the user;
      3. Accidents, lightning, flood, fire, improper ventilation, or any other case that exceeds IDEATEC S.A. liability;
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