MAP 5000 Main Panel (ICP-MAP5000-2, ICP-MAP5000-COM)

www.boschsecurity.com

Using a Bosch Data Bus (BDB) based on Controller Area Network (CAN) technology as the internal and external bus, the main panel supports a range of applications as part of the scalable Modular Alarm Platform 5000 system. The main panel mounts on the MAP Hinged Mounting Plate (ICP-MAP0025) in the MAP Panel Enclosure Kit (ICP-MAP0110). This provides easy access to all wiring terminals and communication port connectors.

**Functions**

**Scalable Range of Applications**
The main panel supports up to 1500 addresses, 500 areas, and 996 users. As part of a Modular Alarm Platform 5000 solution, the main panel connects to building management systems like Bosch Building Integration System (BIS) through internet protocol (IP).

**Bosch Data Bus (BDB) based on CAN Technology**
The main panel provides two data buses:
- **Internal BDB** – Limited to 3 m in total length, the internal BDB connects the main panel to other MAP devices.
- **External BDB** – Up to 1000 m in total length, the external BDB allows command centers, LSN Gateways, and power supplies to be placed at the point of use, promoting greater efficiency.

**Inputs and Outputs**
The main panel supports one unsupervised tamper input and eight supervised inputs. It also supports one auxiliary output, two Form C dry-contact relay outputs, and two programmable outputs for local notification devices. The auxiliary output and both power outputs are over-current protected. The outputs are designed to provide individual protection. As a result, if a short circuit occurs on one output, the fault does not adversely affect the operation of another output.

- Up to 1500 addresses, 500 areas, and 996 users
- Eight supervised inputs and one unsupervised tamper input
- Two programmable outputs for optical and acoustical signaling device as well as for other local notification devices; two programmable relay outputs; and one auxiliary output
- Two Bosch Data Bus (BDB) interfaces and Ethernet port
- Event reporting via Ethernet (optional)
Firmware Upgrades
The firmware of all devices in the MAP system can be upgraded or updated with the Bosch Remote Programming Software (RPS). This allows for on-site or off-site (IP through Ethernet) upgrades or updates.

Languages
For each user, a preferred language is selected when the user is created. When the user logs in, the preferred language is used at the command center.

Event reporting
Events can be transmitted via two separate paths (Ethernet, GPRS) to a monitoring station. Available protocol: VdS 2465 (optional with ICP-MAP5000-COM, ICP-MAP5000-SC).

Communication with Bosch Software Packages
The MAP system allows separate communication with Bosch BIS and RPS software packages.
- **Bosch Building Integration System (BIS)**
  The MAP system can report alarm and trouble events, and share its user database with the Bosch Building Integration System (BIS) for full integration of the security system in the BIS application.
- **Bosch Remote Programming Software (RPS)**
  Programming and diagnostic software for control panels that provides remote programming, record storage, remote control, and diagnostics options.
  
  2 VdS-system is limited only to nonreactive connection as information system via exclusive transmission path.

Certifications and approvals
The main panel is designed to comply with the certifications and standards listed here.

<table>
<thead>
<tr>
<th>Region</th>
<th>Certification</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>EN 50131-3:2009</td>
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<tr>
<td></td>
<td>EN 50131-6:2008</td>
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<tr>
<td>Switzerland</td>
<td>SES Association of Swiss installers of security systems Edition V3/01.01.2011-d</td>
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<td>Germany</td>
<td>VdS G114801 MAP5000 Communicator VdS 2465</td>
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<td>AFNOR NF&amp;A2P Grade 3 (when report is completed from CNPP Lab) Certificate Number 12xxxxxxxx (when released by CNPP Cert) According to NF324-H58</td>
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<td>Germany</td>
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<td>VdS G111040 C MAP 5000</td>
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<td>VdS G114801</td>
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Front View of MAP 5000 Main Panel
1. Installer switch
2. Ethernet port
3. USB port – currently not enabled
4. USB host port – currently not enabled
5. External Bosch Data Bus (BDB) port
6. Two auxiliary switched voltage outputs
7. Two Form C dry-contact relay outputs
8. One auxiliary power output
9. Eight supervised inputs
10. Tamper switch input

Rear View of MAP 5000 Main Panel
11. Power Supply input connector
12. Internal Bosch Data Bus (BDB) port
### Parts included

<table>
<thead>
<tr>
<th>Quant.</th>
<th>Component</th>
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<tbody>
<tr>
<td>1</td>
<td>MAP 5000 Main Panel (ICP-MAP5000-2)</td>
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<tr>
<td>1</td>
<td>Accessory pack</td>
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<tr>
<td></td>
<td>• Eight 12.1 kΩ EOL resistors</td>
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<tr>
<td></td>
<td>• Two 120 Ω CAN terminal EOL resistors</td>
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<tr>
<td></td>
<td>• One main panel power cable</td>
</tr>
<tr>
<td></td>
<td>• One 2-pin terminal plug (white)</td>
</tr>
<tr>
<td></td>
<td>• One 2-pin terminal plug (dark blue)</td>
</tr>
<tr>
<td></td>
<td>• Two 3-pin terminal plugs (orange)</td>
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<td></td>
<td>• Four 3-pin terminal plugs (dark blue)</td>
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<td></td>
<td>• One 4-pin terminal plug (green) optional with ICP-MAP5000-COM/ICP-MAP5000-SC</td>
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<tr>
<td></td>
<td>• Snap ferrite small</td>
</tr>
<tr>
<td></td>
<td>• Snap ferrite big</td>
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<td>Literature, User Guide</td>
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<tr>
<td>1</td>
<td>Literature, Release Notes</td>
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</tbody>
</table>

### Ordering information

**MAP 5000 Main Panel**

MAP 5000 main panel controller with wiring terminals for tamper and power supply inputs, eight supervised inputs form C relay and auxiliary power outputs, switched voltage outputs, two Bosch Data Bus ports and an Ethernet port.

Order number **ICP-MAP5000-2**

**MAP 5000 Main Panel with IP Communicator**

same as ICP-MAP5000-2. Additional integrated IP Communicator.

Order number **ICP-MAP5000-COM**

**MAP 5000 Main Panel Small**

same as ICP-MAP5000-2. limited to one LSN Gateway (ICP-MAP0001-2) and two Control Centers (IUI-MAP0001-2)

Order number **ICP-MAP5000-S**

**MAP 5000 Main Panel Small, with IP Communicator**

same as ICP-MAP5000-2. Additional integrated IP Communicator. limited to one LSN Gateway (ICP-MAP0001-2) and two Control Centers (IUI-MAP0001-2)

Order number **ICP-MAP5000-SC**

**ITS-MAP0008 GSM Module**

GSM module provides wireless transmission of events to a monitoring station via GPRS.

Order number **ITS-MAP0008**

### Technical specifications

#### Electrical

- **Operating Voltage Range:** 16 VDC to 29 VDC, 28 VDC nominal
- **Idle Current Draw:** 250 mA
- **Alarm Current Draw:** 500 mA
- **Outputs:** The main panel supports one auxiliary output and two power outputs, individually limited to 1A at 28 VDC.
- **Relay Outputs:** Two Form C dry-contact relay outputs, Contact rating 1A/30VAC and 1A/30VDC.
- **Data storage:** Use of non-volatile memory for configuration and event memory.

#### Mechanical

- **Dimensions (HxWxD):** 146 mm x 216 mm x 55 mm (5.75 in. x 8.5 in. x 2.2 in.)
- **Weight:** 450 g (1 lb)
- **Indicator:** Green LED for operating status

#### Environmental

- **Operating Temperature:** -10ºC to +55ºC (+14ºF to +131ºF)
- **Storage Temperature:** -20ºC to +60ºC (-4ºF to +140ºF)
- **Relative Humidity:** 5% to 95% (non-condensing) at the operating and storage temperatures.
- **Protective System Compliant with IEC 60529:** IP 30
- **IEC 62262 Enclosure Protection:** IK04
- **Environmental Class:** Environmental Class II: EN50130-5, VdS 2110