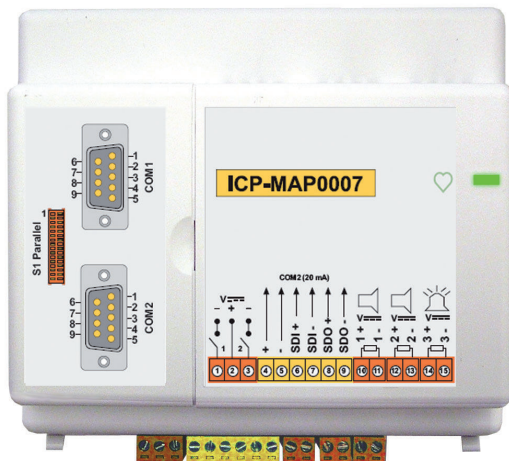


MAP DE Module

www.boschsecurity.com



BOSCH
Invented for life



- ▶ Supports communicator connectivity
- ▶ Supports DR2020T printer connectivity (current loop)
- ▶ Provides two RS-232 COM ports
- ▶ Provides three supervised and programmable outputs for sirens, strobes, and other audio-visual devices
- ▶ Provides two unsupervised and programmable open-collector outputs

This module is the primary communication interface between the MAP 5000 Main Panel (ICP-MAP5000-2) and the communicator.

Functions

Communicator Interface

The DE module has seven dedicated outputs and two dedicated inputs for parallel connection to a communicator (S1-P).

RS-232 COM Ports

The module provides two RS-232 COM ports:

- The RS-232 **COM 1** port provides an interface to the wireless GSM module ITS-MAP0008. Alternatively **COM 1** port can be used as Teleservice interface via AT2000.
- The RS-232 **COM 2** port is shared with the 20 mA current loop on the terminal strip that supports connection to one DR2020T printer through a 6-position terminal block. When a DR2020T printer is connected, the RS-232 COM 2 port is unavailable. The RS-232 COM 2 is reserved for future expansion.

Programmable Outputs

Supervised and Programmable Outputs

The module provides three polarity-reversing supervised programmable outputs. The output voltage is based on the input supply voltage to the module. Supervision is provided by a 12.1 kΩ end-of-line (EOL) resistor, and there is a polarity reversing circuit for each of the outputs in the module.

Unsupervised and Programmable Open-collector Outputs

The module provides two unsupervised programmable open-collector outputs. Installers can use these outputs to activate an external relay, indicator, solenoid, or other device.

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.

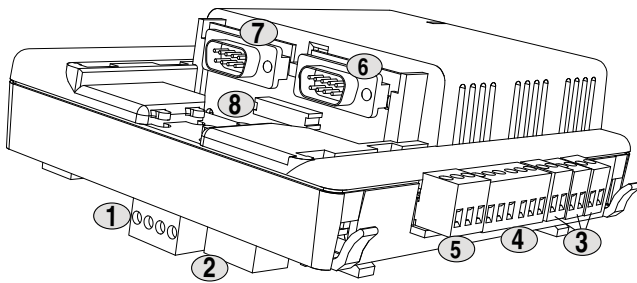
Certifications and approvals

Region	Certification	
Germany	VdS-S	S 112016 C MAP 5000
	VdS	G111040 ICP-MAP-5000
	VdS	G114801 ICP-MAP5000-COM

Region	Certification	
Europe	CE	EN 55022, EN 50130-4, EN 6100-3-2, EN 6100-3-3, EN 60950-1 MAP 5000 family
	EN50131	EN-ST-000121 MAP 5000
France	AFNOR	NF&A2P Grade 3, Certificat numéro 1133400003A0, Conforme à la norme NF324-H58

Installation/configuration notes

Terminals and Connectors



1. 2 x 4 pin Bosch Data Bus connector
2. 2 x 4 pin Bosch Data Bus connector
3. Three outputs (supervised, programmable)
4. DR2020T Printer Serial Interface
5. Two open-collector outputs (unsupervised, programmable)
6. COM 2 port
7. COM 1 port
8. Ribbon Cable Connector for communicator (S1-P)

Compatibility Information

Control Panels

MAP 5000 Main Panel (ICP-MAP5000-2)

Communicator Interfaces

The DE module has seven dedicated outputs and two dedicated inputs for connection to a communicator via the ribbon cable connector (S1-P). If the communicator cannot be installed in the the MAP Panel Enclosure Kit then the ICP-COM-IF Relay Module makes it possible for a potential-free connection through an external communicator.

Printer Interface

Supports DR2020T Printer connectivity – current loop, up to 1000 m (3280 ft) in total length

Parts included

Quant.	Component
1	ICP-MAP0007-2 MAP DE Module
1	Accessory pack <ul style="list-style-type: none"> • Three 12.1 kΩ EOL resistors • Two 4-pin terminal plugs (green)

- Three 2-pin terminal plugs (orange)
- One 3-pin terminal plug (orange)
- One 6-pin terminal plug (yellow)

1 Literature, Installation Guide

Technical specifications

Electrical

Minimum operating voltage in VDC	16
Maximum operating voltage in VDC	29
Rated voltage in VDC	28
Minimum current consumption in mA	100
Maximum current consumption in mA	150
Outputs	<ul style="list-style-type: none"> • Unsupervised and programmable open-collector outputs able to sink up to a combined current of 0.5 A at 28 VDC. • Supervised and programmable outputs rated at 1 A each.

Mechanical

Dimension in cm (H x W x D)	14.6 x 15.9 x 7.6
Weight in g	440
Indicator	Green LED for device status
Number of output modules	
Unsupervised and programmable open-collector	2
Supervised and programmable outputs rated	3

Environmental

Minimum operating temperature in °C	-10
Maximum operating temperature in °C	55
Minimum storage temperature in °C	-20
Maximum storage temperature in °C	60
Minimum relative humidity in %	5 (non-condensing)
Maximum relative humidity in %	95 (non-condensing)

Protection class	IP30 IP31 (built into the MAP Panel Enclosure with an edge protection profile)
Security level	IK04 IK06 (built into the MAP Panel Enclosure with an edge protection profile)
Environmental class	II: EN50130-5, VdS 2110
Usage	Indoor

Ordering information

MAP DE Module

Interface between the MAP 5000 Main Panel (ICP-MAP5000) and communicator interfaces including various AT 2000 Transmission System models. MAP DE Module providing two RS-232 COM ports, three polarityreversing supervised programmable outputs for sirens, strobes and other audiovisual devices, two not supervised programmable open-collector outputs, and seven dedicated outputs for communicator.

Order number **ICP-MAP0007-2**

Accessories

MAP GSM Module

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

Order number **ITS-MAP0008**

MAP Printer Cable

3 m (9.8 ft) cable with 8-conductor for connecting the MAP DE Module to a DR2020 Printer.

Order number **ICP-MAP0140**

ICP-COM-IF Relay Module

Relay module for MAP.

Order number **ICP-COM-IF**

MAP Ribbon Cable

Connects the MAP DE Module with an external communicator, for example the ICP-COM-IF Relay Module.

Order number **ICP-MAP0154**

MAP Serial Cable

Connection between the MAP DE Module and a transmission unit or the GPRS modem (ITS-MAP0008).

Order number **ICP-MAP0152**

DR 2020 T, Tabletop version including connection components to BE 2020

Order number **4.998.105.686**

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