

# Internet Gateway IN/S 1.1, IN/S 2.1, VM/S 1.1

## General Description

The ABB Internet Gateway IN/S permits access to the electrical installation from any internet access point. You can therefore operate and monitor your installation remotely. Live pictures can also be transmitted with the help of an additional module and a video camera.

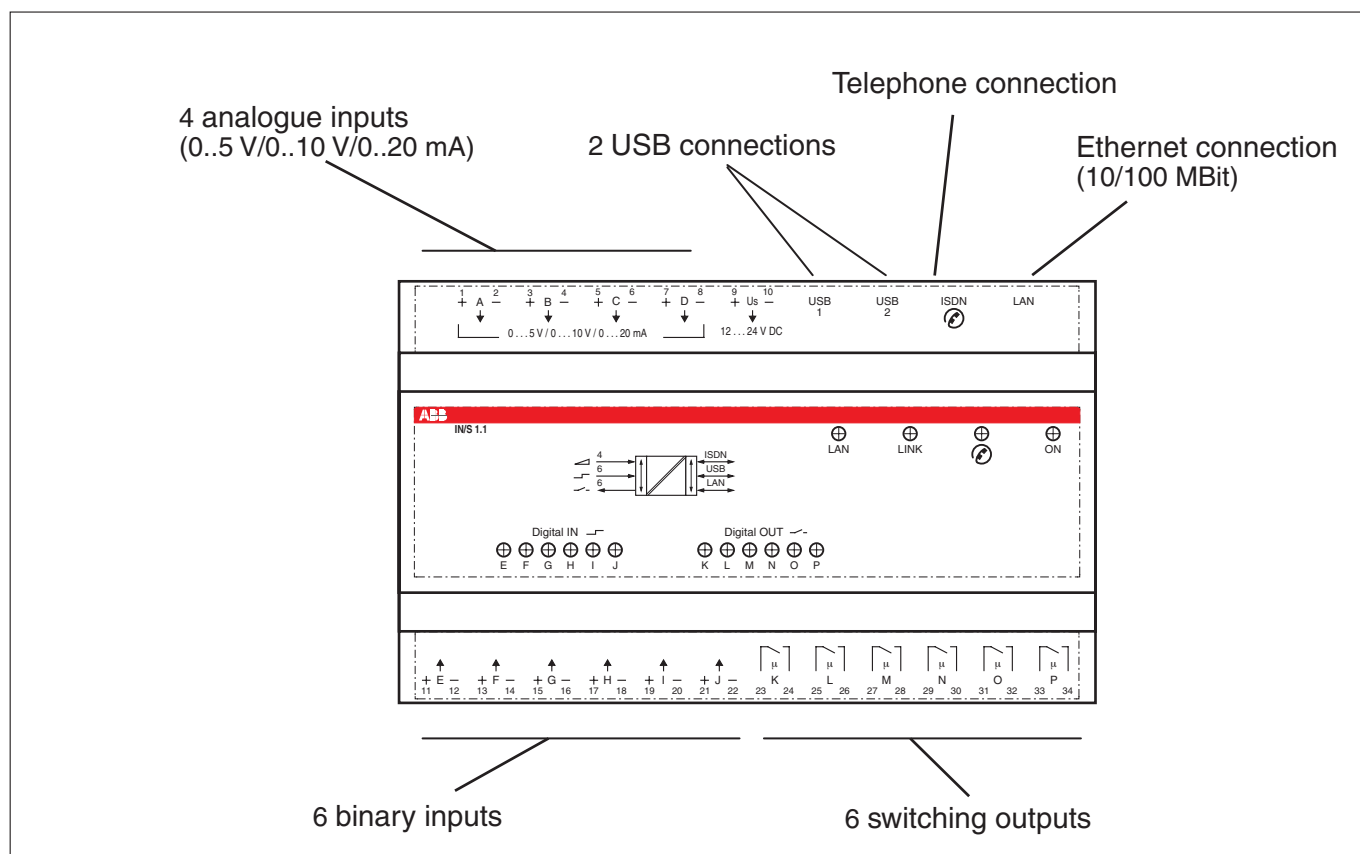
The Internet Gateway can also alert you via e-mail or text message if necessary.

Editors which you can configure simply and quickly via Internet or Ethernet are available for logically linking inputs and outputs and for creating the time switch programs.

This lets you leave your installation with the ABB Internet Gateway alone with peace of mind.

## Special features:

- One Internet access suffices to access the installation worldwide
- Configurable alarms can be forwarded via e-mail or text message
- Up to six switch outputs are available
- Six binary inputs connect the device to the electrical installations
- Four analogue inputs for the registration of measurement values and small signals
- Event memory for binary inputs and analogue values
- Live pictures can be transmitted via a video module with memory capacity for up to 24 pictures
- Simple commissioning via Internet or Ethernet
- Integrated time switch with 32 programs (synchronised by DCF 77 radio)
- Macro-programming for logical, mathematical and time-controlled functions
- simple installation on a 35 mm DIN rail





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# Internet Gateway

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### Applications

The Internet Gateway IN/S can be employed wherever a simple and economical remote monitoring and control solution is required. The Internet Gateway covers a wide range of domestic, small commercial and technical building management applications.

The following list gives an impression of the range of applications possible with the Internet Gateway:

- Electrical installations and systems
- Heating, air-conditioning, ventilation systems
- Wind and solar power systems
- Co-generation systems, fuel cell installations
- Security systems
- Information technology systems
- Sanitary systems
- Data acquisition from branch facilities



The employment of the IN/S in company branches is an interesting application. You can collect the data from the local offices (electricity, water consumption, etc.) with the IN/S and analyse them at a central office.



### Software

The Internet Gateway offers you the following possibilities, without previous programming knowledge or additional software:

- Remote control and monitoring
- Video monitoring with live video pictures (using additional video module)
- Remote alert by e-mail or text message via provider



- Time switch with 32 channels
- Visualisation, recording and storage of analogue values (energy consumption, temperature, etc.)
- Macro-editor for logical operations

The associated software is contained completely within the device and does not need to be installed. All that is required is an Internet browser such as Microsoft® Internet Explorer® or Netscape Communicator® to operate the device. The Internet Gateway concept allows you to adapt the functionality to suit your specific wishes and needs. You select one of the program modules and need only to enter your data, e.g., the times for the time switch. A macro-editor is provided for you to create special functions, if required.

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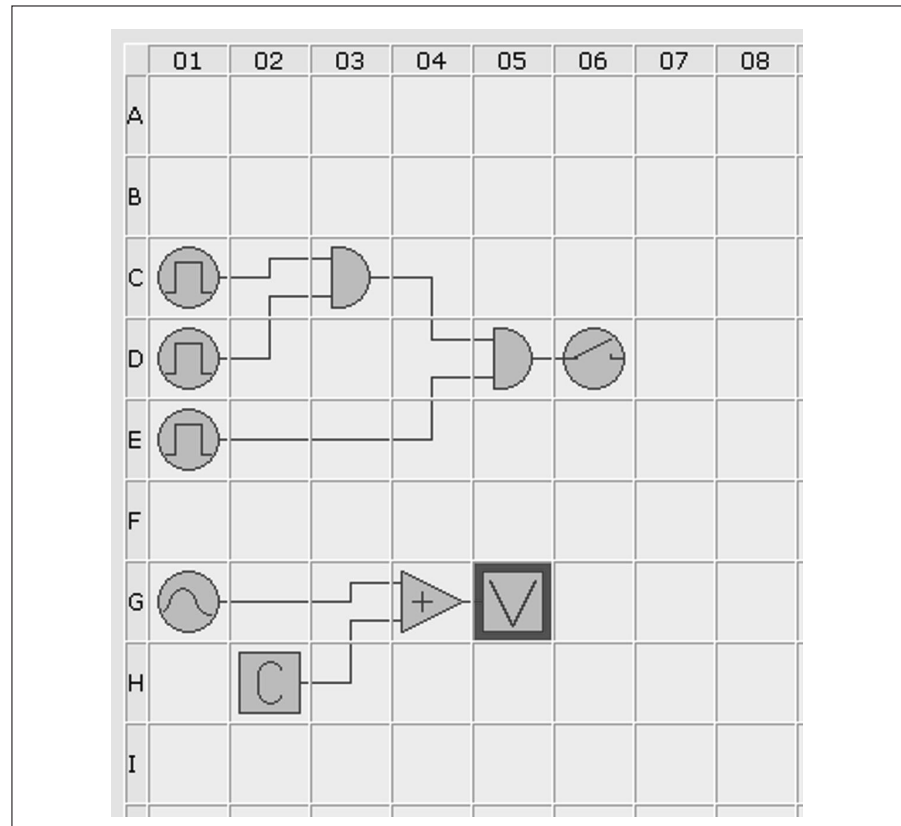
## Internet Gateway

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#### Macro Editor

Macros are predefined sequences for the automation of processes, which you create with the macro editor. The macro editor provided with the IN/S offers a powerful programming environment with which you can implement your own software functionality in a simple manner. For example, you can configure an alarm message dependent upon a meter value in just a few minutes. You can create logic, arithmetic and time functions for the IN/S input and output states using the macro editor. You do not need special knowledge or training.



#### Access via Internet

You can use all Internet access methods for the control and monitoring of your building and installation systems using the Internet Gateway. You can even use mobile devices. For this, you need either a WAP browser (mobile telephone) or an Internet browser (PDA). Many different possibilities to access the Internet-Gateway exist.

- Stationary PC (at home, in the office)
- Notebook/laptop
- Public PC (Internet café)
- Mobile telephone (WAP)
- Organizer/ PDA

The Internet Gateway works together with the domoport Internet portal which can be reached worldwide. The IN/S device software is tailored for this. Access control in the domoport server ensures that only authorised persons can access your device.

The configuration of the IN/S is reduced to a minimum. You need only to enter the IP address (unique network address for the device) and your Internet service provider (ISP). This is necessary only once during the installation of the device and is typically performed by your electrical installation technician.

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### The Internet Gateway and domoport

You can access your IN/S devices at any time without them needing to be permanently connected to the Internet. The domoport service replaces a costly control centre and access software. You control your equipment just using a standard Internet browser. The domoport platform offers not only secure access to your device but also comprehensive administration functionality. You create user and device accounts on the domoport server.

You can administer the accounts yourself. A caretaker has, for example, only restricted access to the IN/S devices. The main user has, by comparison, full access to all devices. Account administration via domoport is very flexible:

You can create a separate account for each device with the co-users intended for these. Each account is protected by a user name and password and can be disabled by you at any time. Domoport offers the following administration functions:

- Master data administration
- Administration of main user, co-user or device accounts

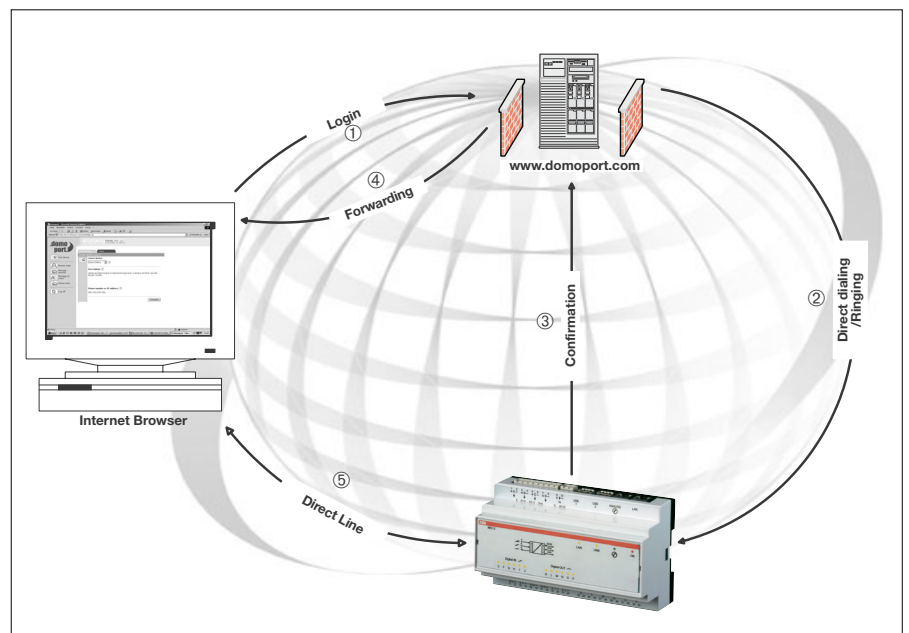
You can access the Internet service under »<http://www.domoport.de>«, or »<http://www.domoport.com>«. You just select the corresponding language using a select button on the start page. You can set up a connection to the Internet Gateway via any Internet access in the following manner:

1. Set up a connection to Internet.
2. Start your Internet browser and enter  
**<http://www.domoport.de/>**.
3. The domoport portal site is opened.

### WAP access

Domoport also offers you an independent WAP user interface. The domoport WAP user interface distinguishes itself by a simple and fast user interface that is optimised for WAP browsers on mobile telephones and PDAs.

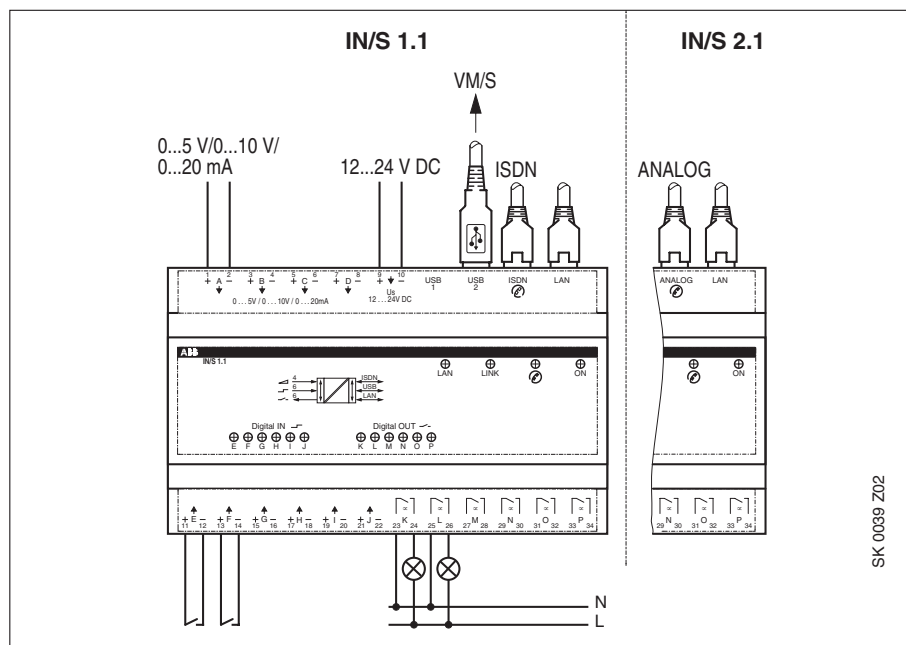
Germany (German) <http://www.domoport.de/wap>  
International (English) <http://www.domoport.com/wap>



### Security concept behind domoport

The domoport service employs proven security technology as used in online banking services. All pages are transmitted in coded form starting from the initial registration of an IN/S in the Internet portal. The access authorisation for a device is checked three times.

# Internet Gateway IN/S 1.1, IN/S 2.1, VM/S 1.1



The Internet Gateway can be integrated in the distribution boards as modular din-rail component. The connections to the inputs and outputs are made using pluggable screw terminals. The telephone and Ethernet connection are connected by means of standard connectors.

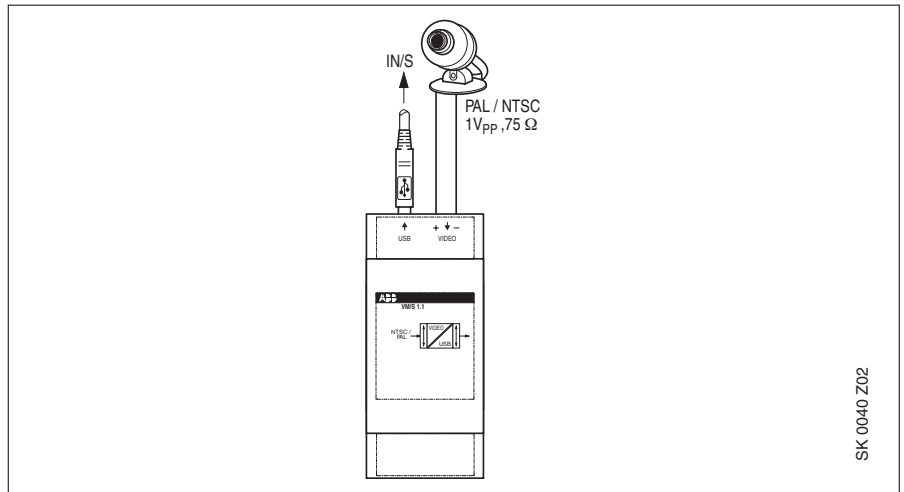
## Technical Data IN/S x.1

<b>Operating voltage:</b>	12 – 24 V DC
<b>Power consumption:</b>	approx. 8 Watt
<b>Mechanical data:</b>	Dimensions (W x H x D): 86 x 157 x 58 mm (9 modules wide) Protection class: IP 20 Connection cross-section: max. 2.5 mm <sup>2</sup> Weight: 0.250 kg Installation: DIN rail to EN 50022
<b>Inputs:</b>	Binary inputs: 6 channels for potential-free contacts Analogue inputs: 4 channels, 0 ... 5 V oder 0 ... 10 V oder 0 ... 20 mA, per channel can be configured
<b>Outputs:</b>	Switch outputs: 230 V AC 24 V DC 6 channels via potential-free contacts max. 10 A per channel with resistive load max. 6 A at cos $\varphi$ = 0.6 Nominal power rating: max. 1380 VA Incandescent lamps: max. 1000 Watt Fluorescent lamps: max. 900 W non-compensated Capacitive load: 230 V AC, max. 4 $\mu$ F Switching rate: max. 10 per minute at rated load Service life: 50,000 switching operations at 230 V AC and 10 A cos $\varphi$ = 1 max. 6 A
<b>LED indicators:</b>	Binary inputs Switch outputs LAN Telephone ON one yellow LED per input one yellow LED per output yellow LED: LAN ok, yellow LED: link active 1 green LED: telephone connection active 1 green LED: network ok and device ready
<b>Network connection:</b>	RJ 45 socket Ethernet 10/100 Mbit.
<b>Telephone connection:</b>	RJ 45 socket for ISDN connection (IN/S 1.1.) for analogue connection (IN/S 2.1)
<b>USB connection:</b>	2 USB sockets (Type A) for connection of external video module (VM/S 1.1).



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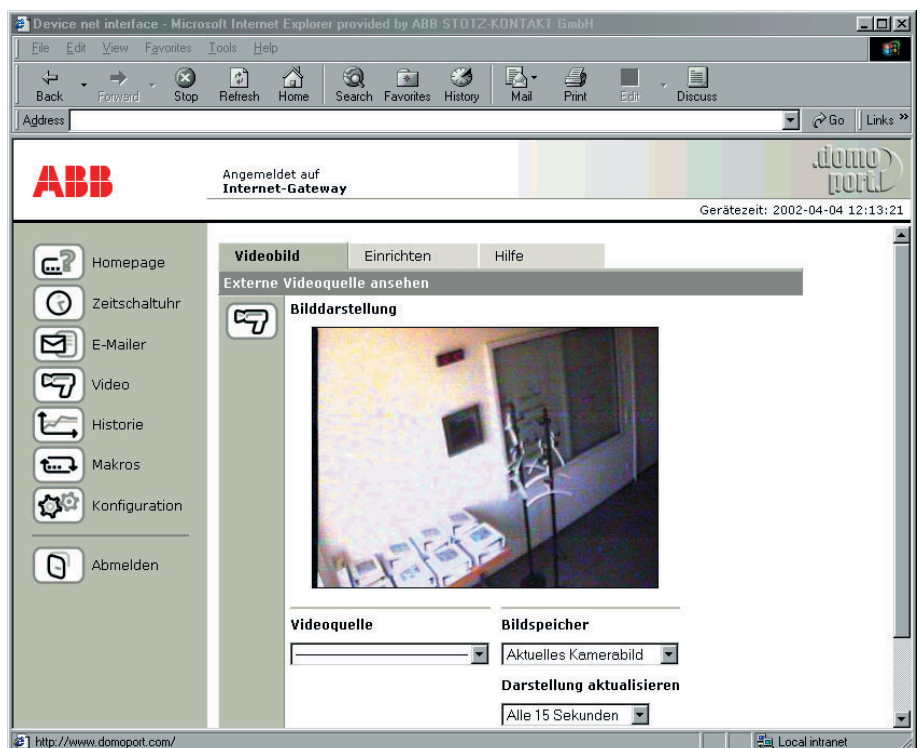
## Connection Diagram Video Module VM/S 1.1



## Technical Data VM/S 1.1

<b>Operating voltage:</b>	5 V DC, supplied via USB connection
<b>Power consumption:</b>	approx. 0.75 Watt
<b>Mechanical data:</b>	
Dimensions (W x H x D):	86 x 35 x 58 mm (2 modules wide)
Protection class:	IP 20
Weight:	0.150 kg
Installation:	DIN rail to EN 50022
<b>Input:</b>	
Video Input:	NTSC/PAL video, 1 Vpp, 75 Ohm
<b>output:</b>	
USB:	USB socket Type B, USB 1.1 compatible, max. 5 m long connecting cable to IN/S x.1 possible
<b>Accessories:</b>	
	USB cable 0.5 m for connection to IN/S x.1

## Example of a video picture in a browser



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### All functions at a glance

<b>Visualisation</b>		The current state of the inputs and the input event memory can be viewed from the homepage <a href="http://www.domoport.de">www.domoport.de</a> / <a href="http://www.domoport.com/">http://www.domoport.com/</a> . The outputs can be remotely switched from here.
<b>Security</b>		Communications in Internet are performed over a secure connection (SSL) and the allocation and checking of security codes.
<b>Alarm and event messages</b>	Types:	A message can be configured as an alarm or event
	E-mail:	Up to 32 e-mail recipients. Event memory, video pictures or the current device values can be sent as attachments with an e-mail.
	Text messages:	A text message can be configured for each message, which can be sent to up to 32 addresses.
	Message strategy:	A professional message string can be defined for each alarm/event message.
<b>Event memory</b>		The event memory can store the states of the six binary inputs and up to 24 video pictures.
<b>Trend curves</b>		The characteristic of the states of the binary and the analogue inputs from the event memory can be represented as a trend curve.
<b>Video pictures</b>	Resolution:	Maximum 640x480 pixels
	Transmission:	One frame/second at a resolution of 320x240 pixels
	Memory:	Up to 24 video pictures available in event memory
<b>Macro programming</b>	Programming:	Macros are programmed with the aid of a graphic user interface. Logical operations between inputs and outputs, mathematical functions and cyclic sequences can be implemented.
	Parallel processing:	Up to 16 macros can be processed in parallel.
	Variables:	32 variables are provided for read/write access
<b>Time-switching function</b>		32 time-switching programs are provided, for which special days can also be defined.
<b>Configuration</b>	Browser (Microsoft® Internet Explorer® > Version 5, Netscape Communicator® > Version 4.7x, WAP 1.2 Browser)	Configuration is performed with a browser over Internet or Ethernet.

### Order details

Description	Order details Short code	Product no.	bbn 40 11617 EAN	Weight 1 unit in kg	Pack- ing unit
Internet Gateway, ISDN	<b>IN/S 1.1</b>	GH Q605 0064 R0001	<b>55311 7</b>	0.25	1
Internet Gateway, analog	<b>IN/S 2.1</b>	GH Q605 0065 R0001	<b>55312 4</b>	0.25	1

### Accessories

Video Modul	<b>VM/S 1.1</b>	GH Q605 0066 R0001	<b>55313 1</b>	0.15	1
Power Supply, 24 VDC, 0,8 A	<b>NT/S 24.800</b>	GH Q605 0057 R0002	<b>51468 2</b>	0.2	1



The information in this leaflet is subject to change without further notice.

Your ABB-Partner