TECHNICAL DATA

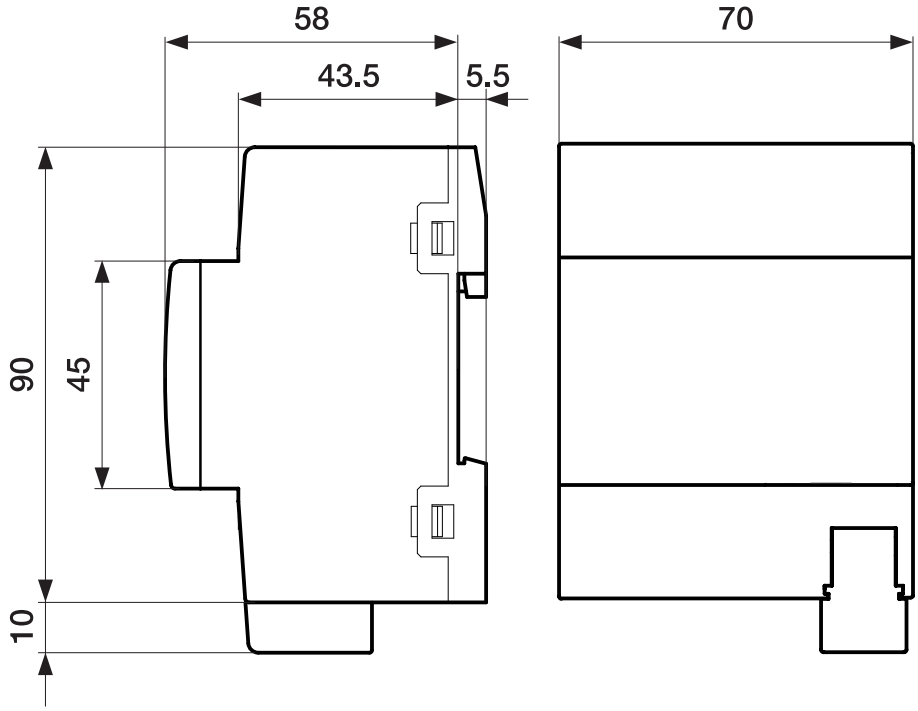
ABB i-bus® KNX
Energy Analyzer
QA/S 1.16.1

Description of product
The device is a modular DIN rail component (MDRC) in proM design. The module width of the device is four space units. It is designed for installation in distribution boards on 35 mm mounting rails.

The Energy Analyzer QA/S 1.16.1 is a compact web-based standalone device for energy management applications in ABB i-bus® KNX networks. It captures, stores, charts and analyzes consumer data from up to 16 electricity, gas, water or heating meters. Used in conjunction with additional sensors, it can also display variables such as temperature and humidity. The device's user interface (UI) is accessed via a web browser.

The UI provides graphic analysis features such as
- A configurable dashboard
- Display and evaluation of historical data
- Analysis of instantaneous values
- Period comparison (before/after)
- Comparison of up to 5 consumers
- Display of cost/consumption figures by consumer groups
- Prioritized load management

Dimension drawing



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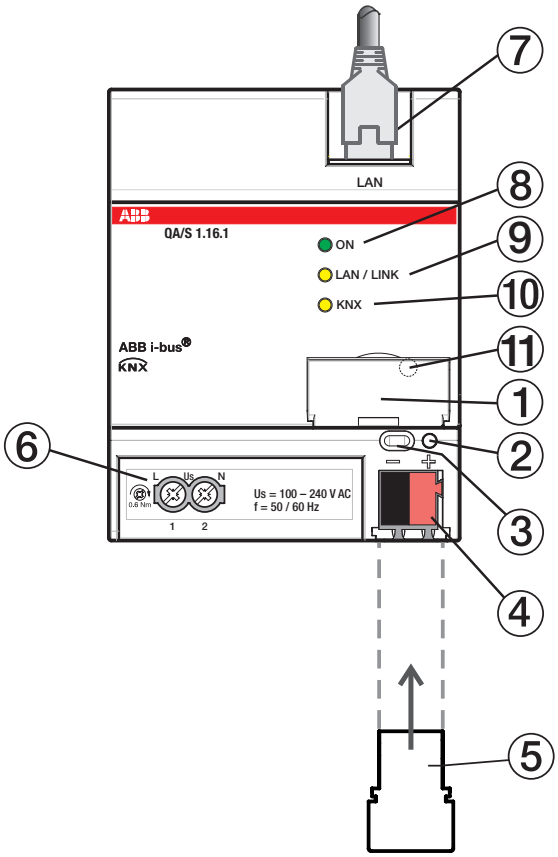
Connection



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LEGEND

1 Label carrier
2 KNX programming LED (red)
3 KNX programming button
4 KNX connection
5 Cover cap
6 U_s supply voltage connection
7 Ethernet/LAN connection
8 ON LED (green)
9 LAN/LINK LED (yellow)
10 KNX telegram LED (yellow)
11 Reset button (behind label carrier)

Operating and display elements		
Button/LED	**Description**	**LED indicator**
	Assignment of the physical KNX address	On: Device is in KNX programming mode
	ON	Off: No supply voltage available On: System initialized Flashing (1 Hz): System startup Flashing (3 Hz): Network settings reset and device restart. Flashing (10 Hz): Factory reset; internal error.
	LAN/LINK	On: Supply voltage and Ethernet connection available Flickering: Data traffic via LAN
	KNX telegram	On: Supply voltage and KNX connection available Flickering: Data traffic via KNX
	Reset (behind label carrier)	Press for less than 2 seconds: no reaction. Press for 2 to 10 seconds: restarts the device and resets the network settings. Retains configuration and last states. Only possible when voltage supply and KNX bus voltage available. Press for more than 20 seconds: factory reset. Deletes configuration and all states. Only possible when voltage supply and KNX bus voltage available.

Technical data		
Supply	Bus voltage	21…32 V DC
	Current consumption, bus	< 12 mA
	Power loss, bus	Maximum 250 mW
	Power loss, device	< 3 W
	Supply voltage U_S	110/230 V AC
	Current consumption, supply voltage	< 50 mA
	KNX connection	0.25 W
Connections	KNX	Via bus connection terminal
	Supply voltage	Via screw terminals
	LAN	RJ45 socket for 10/100BaseT, IEEE 802.3 networks, AutoSensing
Connection terminals	Screw terminal	Screw terminal with universal head (PZ1) 0.2…2.5 mm^2 stranded, 2 x (0.2…2.5 mm^2) 0.2…4 mm^2 solid, 2 x (0.2…4 mm^2)
	Ferrule with plastic sleeve	0.25…2,5 mm^2
	Ferrule without plastic sleeve	0.25…4 mm^2
	TWIN ferrules	0.25…4 mm^2
	Tightening torque	Maximum 0.6 Nm
	Grid	6.35
Protection degree	IP 20	To EN 60529
Protection class	II	To EN 61140
Isolation category	Overvoltage category	III according to EN 60664-1
	Pollution degree	II according to EN 60664-1
SELV	KNX safety extra low voltage	SELV 24 V DC
Temperature range	Operation	-5…+45 °C
	Transport	-25…+70 °C
	Storage	-25…+55 °C
Ambient conditions	Maximum air humidity	93 %, no condensation allowed
	Atmospheric pressure	Atmosphere up to 2,000 m
Design	Modular installation device (MDRC)	Modular installation device
	Design	pro M
	Housing/color	Plastic, gray
Dimensions	Dimensions	90 x 70 x 63.5 mm (H x W x D)
	Mounting width in space units	4 x 17.5 mm modules
Mounting	35 mm mounting rail	According to EN 60715
Mounting position	Any	
Weight	0.15 kg	
Fire classification		Flammability V-0 as per UL94
Approvals	KNX certification	According to EN 50491
CE conformity	In accordance with the EMC and Low Voltage Directives	

Software		
Device type	Energy Analyzer	QA/S 1.16.1
	Application	Energy Analyzer 16f/ ...*
	Maximum number of group objects	1630
	Maximum number of group addresses	2000
	Maximum number of KNX meters	16
Web server and device properties	Number of users	Unlimited
	Simultaneous access to web server	Max. 10 users
	Retrieval/storage of meter data	Every 5 minutes
	IP security	HTTPS, SSL
	Data export	JPG, PNG, CSV, XLSX, PDF
	Data sharing	Modbus TCP, REST API
	Report	FTP or e-mail
	Storage capacity	Min. 3 years (8 GB EMMC)

* ... = Current version number of the application. **Please refer to the software information on our website for this purpose.**

Ordering details					
Device type	**Product Name**	**Order No.**	**bbn 40 16779 EAN**	**Weight 1 pcs. [kg]**	**Packaging [pcs.]**
QA/S 1.16.1	Energy Analyzer	2CDG110224R0011	99771 3	0.15	1

NOTE

Please refer to the QA/S 1.16.1 Energy Analyzer product manual for a detailed description of the application. It is available free of charge at www.abb.com/knx.

ETS and the current version of the device application program are required for programming.

The current version of the application program is available for download at www.abb.com/knx.

In ETS, the application is located in the Catalogs window under Manufacturers/ABB/Energy Management/Energy Analyzer.

The device does not support the locking function of a KNX device in ETS. Using a BCU code to inhibit access to all the project devices has no effect on this device. Data can still be read and programmed.

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