# 436 Gateway + PSU Kit

The 436 Gateway provides a simple interface to a Helvar router system and allows lighting system data to appear in a Building energy Management System.

The product allows a BMS to control and monitor the lighting system as well as obtain device status and group power consumption information. BMS clients can easily connect with the gateway via a TCP/IP network.

436 Gateway   Application Controller

IT Network

BMS
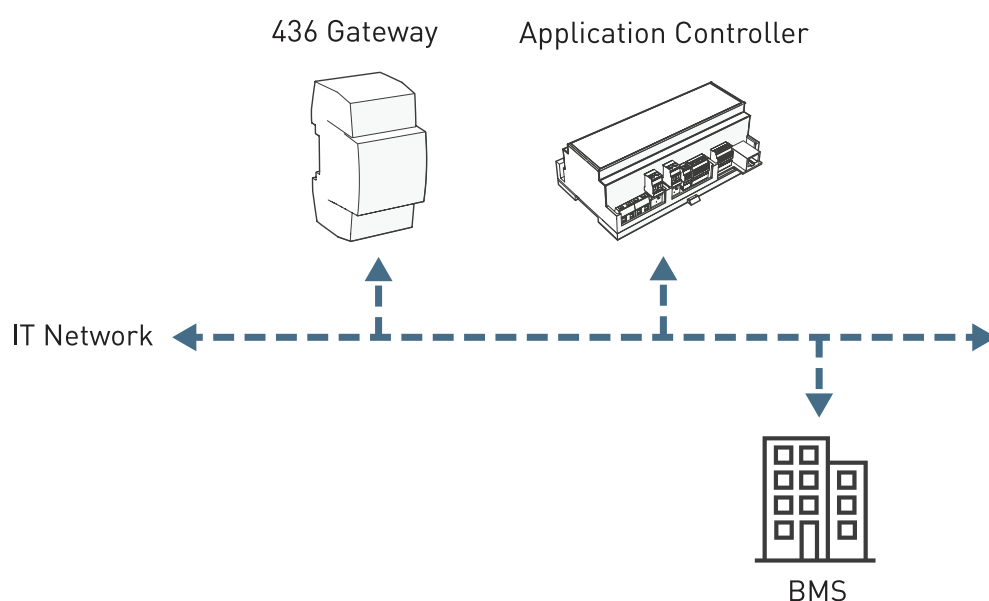
Key Features

- Supported protocols and modes: BACnet server, Modbus Slave
- Helvar workgroup discovery tool
- Helvar router selector
- Automatic Helvar point identification
- Browser programming interface

Device Limits

- Single workgroup
- 20 routers
- 300 groups
- 2000 Export points

Note: Certain project installations may require reduced limits if higher data frequency is required. See 436 User Guide for more information on this topic.

Available Export Points from Helvar System

See User Guide for more details.

Type	Category	Parameter Name
BACnet: AI Analogue Input Modbus: Analogue Read Only	Group	Active Power Consumption (DALI-2 Part 252 or Helvar Calculated)
		Set Point (for selected regions only and only for BACnet)
		Temperature (for selected regions only and only for BACnet)
	Device	Sensor Light Level
		Active Power Consumption (DALI-2 Part 252 or Helvar Calculated)
		Control Gear Operating Time (DALI-2 Part 253)
		Light Sourcing Operating time (DALI-2 Part 253)
	Emergency (Group and Device)	Emergency Function Test State
		Emergency Duration Test State
		Emergency Battery Charge
		Emergency Lamp Time
		Emergency Total Lamp Time
		Emergency Battery Endurance
		Emergency Test Duration
		Emergency Function Test Time
		Emergency Duration Test Time
BACnet: AO Analogue Output Modbus: Analogue Read Only	Group	Intensity
		Colour Temperature
		Colour Coordinates
		Direct Proportion
		Modify Proportion
		Store as Scene
	Device	Store as Scene
	Emergency	N/A

Type	Category	Parameter Name
BACnet: AV Analogue Value Modbus Analogue Read & Write	Group	Scene
	Device	Intensity
		Colour Temperature
		Colour Coordinates
	Emergency	N/A
BACnet: BI Binary Input Modbus: Binary Read Only	Group	N/A
	Device	Router Missing
		Device Missing
		Lamp Failure
		Sensor PIR State
	Emergency (Group and Device)	Emergency Battery Failure
BACnet: BO Binary Output Modbus: Binary Write Only	Group	Temporary Max Level Enable
		Temporary Min Level Enable
	Device	N/A
	Emergency (Group and Device)	Emergency Function Test
		Emergency Duration Test
		Stop Emergency Tests
		Reset Emergency Battery and Lamp Time

Connections
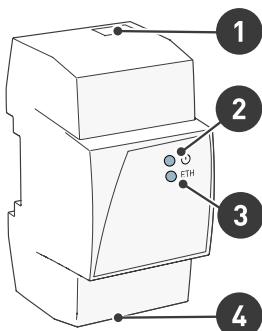
1. 2 Pin terminal port (24 VDC required)
2. Power LED
3. LAN Activity LED
4. Ethernet Port

Dimensions (mm)
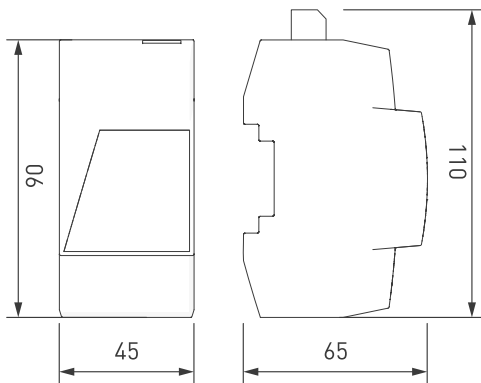
Technical Data

Connections

Connection type:	1 × 10/100 Mb/s for TCP/IP
Default IP address:	10.254.0.100
Default subnet mask:	255.0.0.0
Power input:	24 VDC
Power consumption:	300 mA @ 24 VDC

Operating and storage conditions

Ambient temperature:	0 °C to +40 °C
Relative humidity:	Max. 90 %, noncondensing
Storage temperature:	-20 °C to +80 °C

Mechanical data

Dimensions (with power terminal):	90 × 45 × 60 mm
	(110 x 45 x 60 mm)
Weight:	120 g
Mounting:	DIN rail
IP code:	IP20

Conformity and standards

Conformity:	CE UK CA
EMC emission:	EN 63044-5-1
EMC immunity:	EN 63044-5-2
Environment:	Complies with WEEE and RoHS directives.

Compatibility

Helvar router firmware:	v5.8.5.6 and above
Web browsers:	Firefox (recommended), Chrome
Product name:	436 Gateway + PSU Kit
Description	Gateway with 24VDC 0.63A PSU