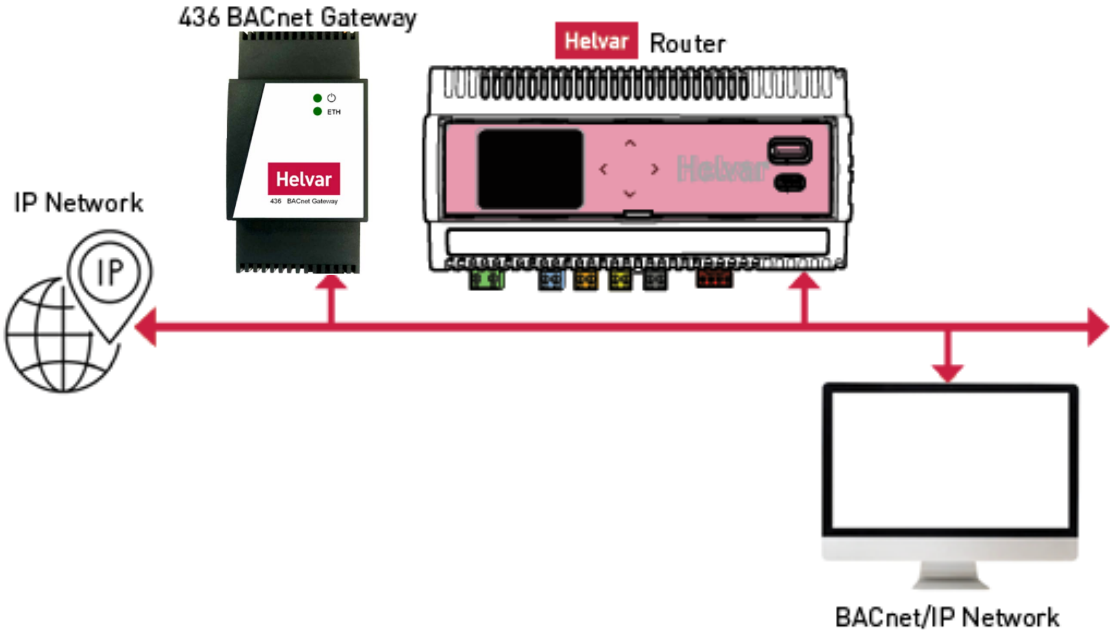
436 BACnet Gateway

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



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

Key Features

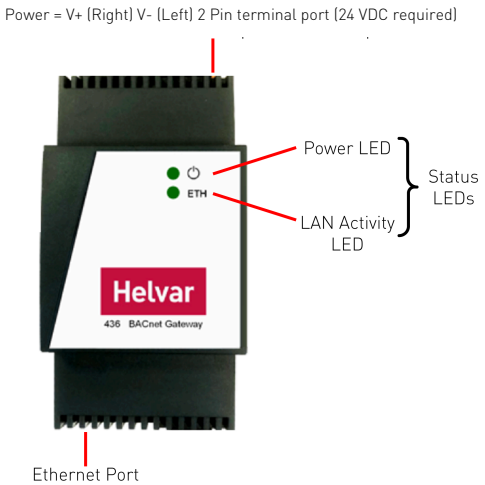
- Operates as BACnet server
- Helvar workgroup discovery tool
- Helvar router selector
- Automatic Helvar point identification
- BACnet/IP compatible
- Automatic BACnet instance labelling
- COV (change of value) BACnet feature
- Browser programming interface

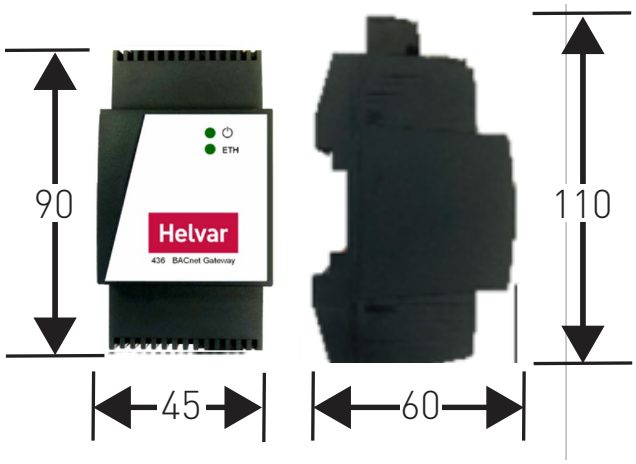
Device Limits

- Single workgroup
- 20 routers
- 300 groups
- 2000 BACnet/IP 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.

Connections and Dimensions (mm)





Available Router to BACnet/IP Communication

See User Guide for more details.

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

BACnet Object Type	Category	Parameter Name
AV (Analogue Value)	Group	Scene
	Device	Intensity Colour Temperature Colour Coordinates
	Emergency	n/a
BI (Binary Input)	Group	n/a
	Device	Router Fail Device Missing Lamp Failure Sensor PIR State
	Emergency	Emergency Battery Failure
BO (Binary Output)	Group	Temporary Max Level Enable Temporary Min Level Enable
	Device	n/a
	Emergency	Emergency Function Test Emergency Duration Test Stop Emergency Tests Reset Emergency Battery and Lamp Table

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:	9 – 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

Compatibility	
Helvar router firmware:	v5.8.5.6 and above
Web browsers:	Firefox (recommended), Chrome

Mechanical data	
Dimensions:	90mm × 45mm × 60mm (excl. connectors) 110mm × 45mm × 60mm (incl. brackets)
Weight:	120 g

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

Order code	
436+PSU:	BACnet Gateway with 24 VDC 1A PSU