

VL-700 BASE

Compact IoT controller, extended temperature range -20°-+60°C

Item no.: 11895

Interfaces:

2x Ethernet, 1x USB host (2.0), 1x serial (RS-232/RS-422/RS-485), 1x SD card, 1x expansion slot

Supply voltage: 24V DC



The **VL-700 BASE** is a compact IoT controller with a pre-installed software (ECS / EnoDisc Controls System) to interpret and forward IoT data from EnOcean sensors to any cloud or BMS.

In standard configuration, the VL-700 BASE application uses MQTT as the data interface.

On request, also other interfaces like MODBUS TCP, OPC UA or BACNET can be integrated.

Below you will find the most important device features in tabular form. For further information, please refer to the manual.

Display

Type	No display
Resolution	-
Diagonal	-
Quantity colors	-
Backlighting	-
Brightness	-
Dimmable	-

System resources

CPU	ARM Cortex A8 1 GHz
Operating system	LINUX RT
RAM	512 MB
Flash	4 GB
Real time clock / RTC	Yes
RTC buffer	Battery
Signal generator	No

User interfaces

Touchscreen	No
Type	-

Other interfaces

Ethernet	2x 10/100 MBit
USB	1x Host V2.0, max. 500 mA
Serial	1x RS-232/RS-422/RS-485, configurable via software
SD card	Yes, 1x
Expansion slot	Yes, 1x

Supply

Supply voltage	24V DC (10..32V DC)
Current consumption	0.5A max. @ 24V DC
Fuse	Yes, self-resetting

Environmental conditions

Operating temperature	-20°..+60°C Possibly lower, depending on plug-in module or USB
Storage temperature	-20°..+70°C
Humidity	5..85% relative humidity, non-condensing
Protection class	IP20

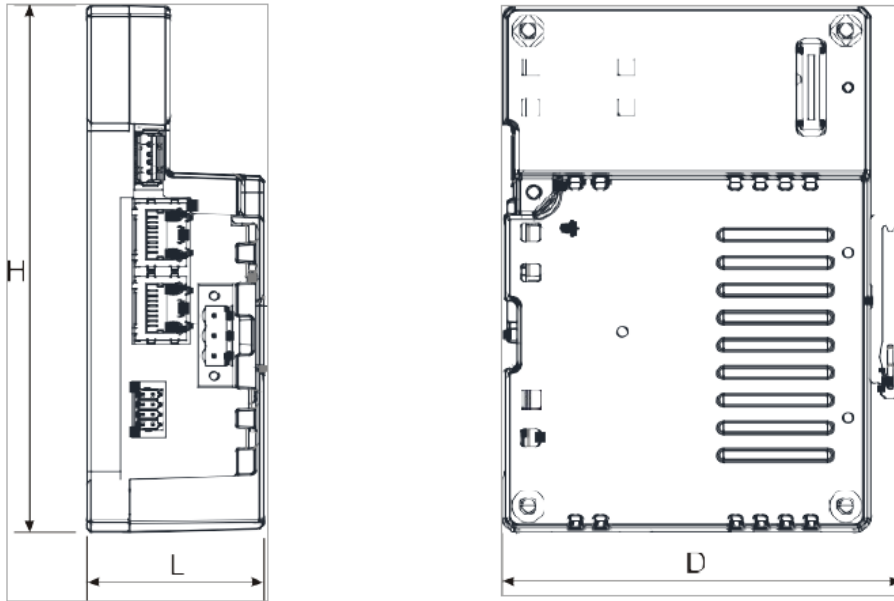
Dimensions and weight

Front panel (LxH)	45 x 134 mm
Depth (housing + front) (D+T)	102 mm
Weight	0.6 Kg

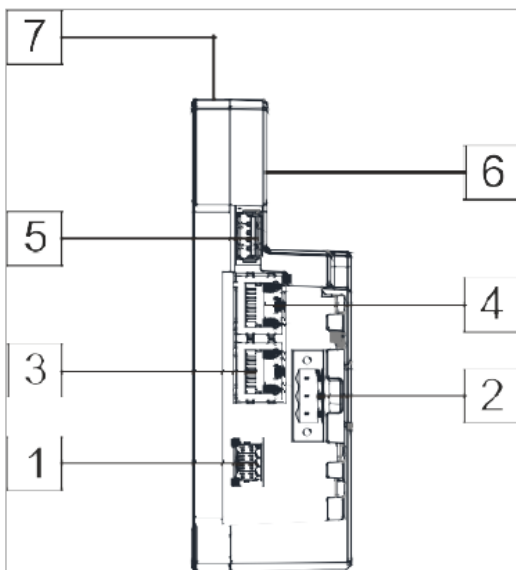
Tests / Approvals

CE	EN 61000-6-4 EN 61000-6-2, industrial environment EN 61000-6-3 EN 61000-6-1 EN 60945
UL	cULus: UL61010-1 / UL61010-2-201 cULus: Class 1 Div
IECEx	2 Zone 2: Ex nA IIC T5 Gc
ATEX	Zone 2: II 3 G Ex nA IIC T5 Gc
DNV-GL	Yes
RCM	Yes

Dimensions



Connections



- | | |
|---|-------------------------------------|
| 1 | Serial port |
| 2 | Power supply |
| 3 | Ethernet port 1 (10/100 Mb) |
| 4 | Ethernet port 0 (10/100 Mb) |
| 5 | USB port 1 |
| 6 | Expansion slots for plug-in modules |
| 7 | SD Card slot |

Ordering information

Article text	Order number	Description
VL-700 BASE	11895	CPU module and IoT controller, 4 GB Flash, 512 MB RAM, ARM Cortex-A8 Single Core 1 GHz, Linux RT, 2x Ethernet Ports 10/100, 1x USB Host (2.0), 1x serial, 1x SD- Slot, 24V DC, 0.5A, IP20, Ambient temperature: extended, -20°C to +60°C with pre-installed ECS application, Dimensions: 45 x 134 x 102 mm

Version 5, 01.10.2023