VL-801-01-868 EnoSign® CO2/Temp/rH, CE

Room display for CO2, temperature and relative humidity
Item no. 12944

Interfaces:
E-paper display for CO2 [ppm], temperature [°C] and rel. humidity [%],
EnOcean unidirectional (internal antenna), supply: 2x AAA batteries,
36 x 56 x 16 mm

The EnoSign® CO2/Temp/rH shows measured values directly in the room. An e-paper display shows up to three values simultaneously: CO2 content, relative humidity and temperature.

The device does not take measurements itself. It receives the values of an EnOcean® sensor via the EnOcean Control System of the VL-700 BASE and displays them. Several displays can use the same data source, so that one measuring point becomes visible at several locations.

The e-paper retains its content without power and remains readable even when the lighting is switched off. A status line at the bottom edge shows the operating status, including the battery charge level.

The display is powered by two AAA batteries with a battery life of around five years. No cable to the device is required.

For mounting and service, the device sits in a keyhole mount. The batteries are freely accessible from the rear; to replace them, the display is simply taken off the wall, opening the housing is not required.

EnOcean Equipment Profiles used: receive A5-3F-7F, variant 1; transmit A5-04-03 with the BASE ID.

No configuration is required.

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Technical data

Interfaces

Type	EnOcean
Quantity	1
Transmit/receive center frequency	868.3 MHz / ASK
Frequency range used	868.0 – 868.6 MHz
Maximum transmission power	typ. 6 dBm @ 868.300 MHz

Table 1: Radio interface

Display

Type	E-paper, black / white
Resolution	200 x 200 pixels
Screen diagonal	1.5 inches
Display area	27.6 x 27.6 mm

Table 2: Display structure

Displayed values

CO2	in ppm, integer
Relative humidity	in %, integer
Temperature	in °C, integer
Status line	Operating status and charge level

Table 3: Displayed measured values and units

Update

Interval	Every 5 minutes

Table 4: Display update

User interfaces

Service button	Yes, on the rear
Service LED	Yes, internal

Table 5: Controls on the device

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Data source

Assignment	Sensor slot in the EnOcean Control System of the VL-700 BASE (0 to 499)

Table 6: Data source assignment

Housing

Material	Somos® Ledo 6060 or equivalent
Color	White

Table 7: Housing material and color

Power supply

Supply	2x AAA batteries
Battery life	approx. 5 years

Table 8: Power supply and battery life

Environmental conditions

Operating temperature	0 °C … +60 °C
Storage temperature	-20 °C … +70 °C
Humidity	0 … 95 % relative humidity, non-condensing
Protection class	IP20

Table 9: Permissible ambient conditions

Dimensions and weight

Weight	44 g (with batteries)
Dimensions	36 x 56 x 16 mm

Table 10: Dimensions and weight

Tests / approvals

CE	2014/53/EU 2011/65/EU + Annex 2015/863/EU RoHS 3 Directive

Table 11: Tests and approvals

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Supported EEPs (EnOcean Equipment Profiles)

Transmit / TX

No.	EEP	Description	Transmit ID
1	A5-04-03	Temperature and relative humidity	BASE ID

Table 12: Transmitted EnOcean profile

Receive / RX

No.	EEP	Description
1	A5-3F-7F, variant 1	Reception of display data from VL-700 BASE / EnoDisc, 4 bytes: CO2, temperature, relative humidity (mailbox)

Table 13: Received EnOcean profiles

Device description

Power supply

The EnoSign® CO2/Temp/rH is powered by two AAA batteries. The battery life is around five years. The batteries are freely accessible from the rear.

EnOcean

The integrated EnOcean transceiver receives the display data via profile A5-3F-7F, variant 1. It transmits profile A5-04-03 with the BASE ID, i.e. temperature and relative humidity.

Display

The EnoSign® receives four bytes via mailbox and displays them as follows:

Byte	Content	Unit
1	Temperature	°C, integer
2	Relative humidity	%, integer
3 and 4	CO2	ppm, 16 bit

Table 14: Breakdown of the four received bytes

If a data source without CO2 measurement is taught in, the device displays 0 ppm.

Update interval

By default, the EnoSign® updates the display every five minutes.

Assignment to the data source

The assignment is made in the EnOcean Control System of the VL-700 BASE by specifying the sensor slot. One data source can supply several displays.

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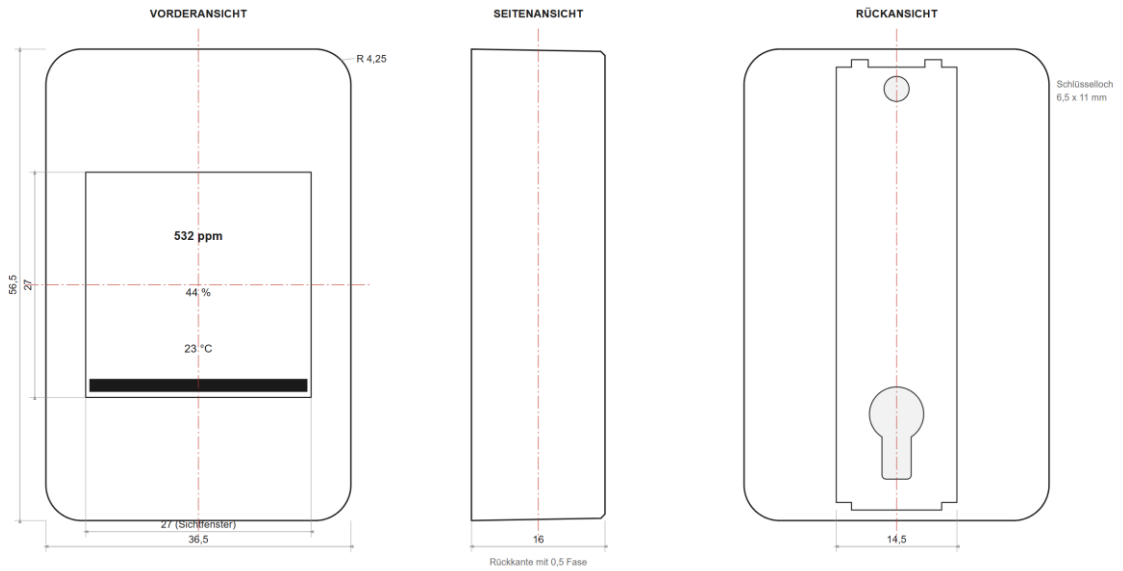
Dimensions



Ordering information

Item	Item no.	Description
VL-801-01-868 EnOcean display "EnoSign CO2/Temp/RH" / 1.5" / white / CE	12944	EnOcean display, e-paper, 1.5", black / white; Resolution: 200 x 200 pixels; display size: 27.6 x 27.6 mm; Batteries: 2x AAA; EnOcean 868.3 MHz, CE; Variant: CO2/temp./rel. humidity display; EEP: RX A5-3F-7F variant 1, TX A5-04-03 (BASE ID)

Table 15: Ordering details

Note

This device is approved for operation within the member states of the European Union only.

EU declaration of conformity

DEUTA Controls GmbH hereby declares that the radio equipment type **VL-801-01-868 EnoSign® CO2/Temp/rH CE** is in compliance with Directive 2014/53/EU. The full text of the EU declaration of

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conformity is available at the following internet address: www.deuta-controls.net under Service/Downloads (Doc. EUDC2026_106).

Document control			
Document no.	DB-12944-DE-02	Version	2
Date	15.09.2026	Classification	Public
Author	Technical documentation	Reviewed and approved	Management
Change	EnOcean profiles for transmitting and receiving added, dimensional drawing recreated from CAD data, typesetting rules standardized		
Printed copies are not subject to revision control. The currently valid version is available at www.deuta-controls.net under Service/Downloads.			

Table 16: Document control

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