

AL-448-3x-868 EnOcean sensor "EnoSense® 3PH Current Sense" / CE

Current sensor (AC) with current transformer clamps (clip-on)

EnOcean 868 MHz / CE

Article no. 12943 (80 A) / 12965 (200 A) / 12966 (600 A)

Interfaces:

Sensors to measure AC current, with EnOcean (internal antenna), power supply: energy harvesting, optional: 2x AAA batteries to extend measurement range down to 0 A



Sensor with current transformer clamps

The sensor of type **AL-448-3x-868 EnoSense® 3PH Current Sense** is used to measure the following values:

- AC Current (max. 80 A / 200 A / 600 A, depending on the model)

New measurement data will be available every 10 minutes. Data will be sent via EnOcean wireless interface. The device is powered by energy harvesting, no power supply required.

Anyhow, using two optional AAA batteries, the sensor is capable to measure AC currents starting at 0 A.

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	+10 dBm

Sensor: Current

Sensor type	Current transformers (clip-on)
Measuring range	12943: approx. 2 .. 80 A, 0 .. 80 A with internal batteries 12965: approx. 2 .. 200 A, 0 .. 200 A with internal batteries 12966: approx. 2 .. 600 A, 0 .. 600 A with internal batteries
Accuracy	+/- 0.1 A or 1.5 %, whichever is greater
Resolution	0.1 A
Measurement rate	Every 30 seconds
Frequency	50 Hz (60 Hz in preparation)

User interfaces

Service button	Yes
Service LED	No

Housing, dimensions and weights

Housing	Somos® Ledo 6060 or similar
Weight	50 g (without CT clamps)
Dimensions	approx. 80 x 35 x 20 mm

Power supply

Power supply	Self powered by CT clamps Optional: 2x AAA batteries
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Ambient conditions

Ambient temp.	-5° .. + 50 °C
Storage temp.	-15 °C .. +60 °C
Rel. humidity	0 .. 80 % rel. humidity, non-condensing
Protection class	IP20

Standards / approvals

CE	2014/53/EU RED Directive 2011/65/EU + Annex 2015/863/EU RoHS-3 Directive
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Table of supported EEP (EnOcean Equipment Profile)

Transmit / TX

No.	EEP	EEP Description	Transmit ID
1	D2-32-02	A.C. Current Clamp, Type 02	BASE-ID

Receive / RX

No.	EEP	Description
-	-	-

Device description

Energy supply

The EnoSense® 3PH Current Sense is a self-powered sensor, energy harvesting by the current passing through the CT clamps. As an option, you can use two AAA batteries. In this way, no minimum current is required for measurement, and device will measure down to 0 A.

EnOcean

The integrated EnOcean transceiver transmits the measured values cyclically to a building management system using unidirectional EnOcean communication.

Mechanics / mounting



The device can be mounted using a screw or an adhesive tape.

The CT clamps can be easily opened and closed; no wires have to be detached.

This must be done by a certified electrician only!

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Functions of the EnoSense® 3PH Current Sense

Continuous AC current measurement

The device sends a new measurement value for the up to 3 phases every 30 seconds.

Selecting the device profile / EEP

Actually, the EnoSense® 3 PH Current Sense supports the standard Equipment profile (EEP) D2-32-02 for the A.C. Current.

Switching sleep mode on / off

The two batteries have to be removed when the device is in transport.

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Dimensions of the clamps:



80 A



200A



600 A

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Ordering information

Article designation	Item no.	Item description
AL-448- 31 -868 EnOcean sensor EnoSense® 3PH Current Sense 80 A / CE	12943	EnOcean current sensor, 3-phase, 80 A, hinged current clamps, 100 cm lead wire, RJ-12 plug-in connector, EnOcean 868 MHz; temperature range -5 °C to 50 °C, optional: 2x AAA batteries, Housing: black; EEP: D2-32-02
AL-448- 32 -868 EnOcean sensor EnoSense® 3PH Current Sense 200 A / CE	12965	EnOcean current sensor, 3-phase, 200 A, hinged current clamps, 100 cm lead wire, RJ-12 plug-in connector, EnOcean 868 MHz; temperature range -5 °C to 50 °C, optional: 2x AAA batteries, Housing: black; EEP: D2-32-02
AL-448- 33 -868 EnOcean sensor EnoSense® 3PH Current Sense 600 A / CE	12966	EnOcean current sensor, 3-phase, 600 A, hinged current clamps, 100 cm lead wire, RJ-12 plug-in connector, EnOcean 868 MHz; temperature range -5 °C to 50 °C, optional: 2x AAA batteries, Housing: black; EEP: D2-32-02

Note according to FuAG §20 para. 4:

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

EU Declaration of Conformity

Hereby, DEUTA Controls GmbH declares that the radio equipment type **AL-448-3x-868 EnoSense® Current Sense 3PH / CE** is in compliance with Directive 2014/53/EU. The full text of the EU Declaration of Conformity is available at the following Internet address: www.deuta-controls.de in the Service/Downloads section (Doc. EUDC2026_103).

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