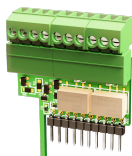


PRODUCT SHEET

Product image



Product Identification

Table 1. Product designation, Part Number and E-Number

Product designation	Item No.	E-number (SE) (sv)
Relay/Communication Cards ECO Series (CEO-FLX)	A-AL1224CEO01	52 137 85

Technical description

Alarm and communication card intended as an option for ECO series products with CEO-FLX motherboards. The card is used to transmit alarm, status and monitoring information between the ECO device and external systems. It is equipped with two relay outputs (NO/NC/COM). One relay signals a power outage, and the other acts as a buzzer alarm (fuse failure as factory default). Both relay outputs can be set and customized via PowerWatch depending on your needs. The card is fully compatible with PowerWatch. Installing the board enables configuration and monitoring from the ECO unit to the PowerWatch, providing extended functionality for operational control and event management. The alarm and communication board is mounted directly on the CEO-FLX board. It is intended for installations where flexible

Table 2. Quick Facts

Quick Facts	
Supply voltage (V)	27.3 V DC (24 V DC) or 13.6 V DC (12 V DC)
Accessories for	Outdoor Enclosures.

Areas of application

Table 3. Areas of application

Areas of application	Yes	No
PowerWatch compatible	✓	
Provides functionality that enables alarm class 2 together with compatible ECO products.	✓	
Alarm transmission/alarm on switching relay	✓	

Electrical data

Table 4. Electrical data

Electrical data	
Supply voltage	27.3 V DC (24 V DC) or 13.6 V DC (12 V DC)
Standby consumption	Data is missing.

Table 5. Printed circuit boards and Internal power consumption

Circuit Boards	Internal power consumption	Other. info
Relay/Communication ECO (CEO-FLX)	Data is missing	

Alarm and protection

Table 6. Number of relay on which alarm can be given

Number of Relays	Alarm on switching relay? ^a
2	✓ ^b .

^aRelay, alternating potential-free contacts.

^bRelay, alternating potential-free contacts.

Communication and Indications

Table 7. Communication and Indications

Communication and Indications	Yes	No	Other. info.
Communication	✓		Communication with the parent system is not supported.
PowerWatch ^a .	✓		
Indicators/LEDs	✓	X	

^aPowerWatch consists of a cable and software, it is ordered separately.

Enclosure and Mechanics

Table 8. Enclosure and Mechanics

Enclosure and Mechanics	
Type	Printed circuit board, product does not have enclosure

Assembly, installation and eligibility requirements

Table 9. Fitting

Fitting	Yes	No
In product (optionally fitted in compatible product).	✓	

Table 10. Installation

Installation	Yes	No
Installed in product.	✓	

Dimensions, weight and packaging information

Table 11. Dimensions

Dimensions, (WxHxD).	Dimensions with packaging ^a .
37 x 37 x 10mm	100 x 210 x 155 mm.

^aDimensions (WxHxD) of product and packaging may differ, this is because the product may be oriented differently in the package.

Table 12. Weight

Net weight	Weight with packaging
0.1 kg	0.2 kg

Table 13. Packaging

Packaging	
Packaging	Cardboard and impact protection in cardboard.
Quantity in pack	1 pc.
Packaging Type (GS1 T0137)	BX box.
Conditions EUR pallet	EUR pallets may not be stacked during transport or storage. Stacking may result in damage to product and packaging
Transport environment	The product must be protected from condensation and direct precipitation during transportation.
Transport temperature (without battery)	-30 °C to +70 °C

Packaging	
Storage environment	Dry indoor environment, protected from condensation. Relative humidity: max 95%, non-condensing
Storage temperature without batteries	-20 °C to +60 °C

The accessories fits in

Table 14. Number of cards that can fit in power supply

Product Series	Enclosure Size	Number of cards that can fit
ECO	M ^a .	1
ECO	L	1

^aThe device must have CEO-FLX mother/control board.

Contact

Table 15. Contact

Department	
Switchboard	031-340 02 30
Support and technical issues	support@milleteknik.se
Sales	sales@milleteknik.se
WWW	www.milleteknik.se
Address	Ögärdesvägen 8B, 433 30 Partille

About this information

All information is published subject to possible errors. Information is updated without prior notice.

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Publication date 2026-07-09

COMPLIANCE AND REGULATORY COMPLIANCE

Delivery time, warranty and terms

Table 16. Delivery time, warranty and terms

Delivery time, warranty and terms	
Warranty period ^a .	The product has a two (2) year warranty against manufacturing defects.
Special warranty conditions	See also general terms and conditions.
General Terms and Conditions	ALEM09 with exceptions, see: www.milleteknik.se/conditions/
Support	Telephone support and email support during the warranty period are free of charge. For spare parts that are not covered by warranty, there is a charge
Delivery and stock	
Delivery time ^b .	2 working days. Or as per agreement. Delivery from factory, transportation time is added.

^aIf the device is purchased through a wholesaler or other supplier, other warranty conditions may apply.

^bIn the case of larger orders, delivery time increases, acc. to agreement.

Operation and maintenance

Table 17. Operation

Operation	Data	Other. info
Environment	Indoor environmental class 1.	
Operating temperature (recommended)	+15°C to +25°C	
Operating temperature (permissible) ^a .	+5°C to +40°C	Class 1 according to EN 50131-6/EN 60839-11

^aSpecifies the permissible ambient temperature range in which the product can operate without damage. See also table on battery life.

Table 18. Maintenance

Yes	No	Interval	Other. info
	✓		Maintenance-free.

Certifications and approvals

Table 19. Approved according to

Complies with	Directives
C.E.	CE marking according to Regulation (EC) No 765/2008
RoHS	RoHS Directive 2011/65/EU, including amendment (EU) 2015/863
EMC	EMC Directive 2014/30/EU
Electric (LVD)	Low Voltage Directive 2014/35/EU

Environmental data

Table 20. Environmental data

Environmental data	J/N	Informație	Other. info.
Building Product Declaration (BPD)	✓	Yes, see iBvd at www.milleteknik.se .	-

Environmental data	J/N	Informație	Other. info.
REACH Information Obligation (EC) No 1907/2006	✓	Yes, see the DoC at www.milleteknik.se The product complies with REACH Regulation (EC) No 1907/2006.	If empty, the product is not covered.
SVHC substances, CAS/EC	✓	Yes, lead, 7439-92-1/231-100-4	For text, see iBvd at www.milleteknik.se . If blank, substance is missing.
Subject to the RoHS Directive, (EU) 2015/863	✓	Yes, see the DoC at www.milleteknik.se	
WEEE 2012/19/EU	✓	The product contains electrical components or wiring and is covered by the WEEE Directive (2012/19/EU).	If empty, the product is not covered. End-of-life products must be returned to a recycling centre
Battery Regulation (EU) 2023/1542	X		
SCIP No 2008/98/EC	✓		If empty, no SCIP number is needed.
Conflict minerals (EU) 2017/821	X/ X/ X/ X/ ✓	No=Gold, Tungsten, Tantalum, Cobalt. Yes=Tin	Tin in solders in printed circuit boards purchased through a Swedish supplier.
Contains nanomaterials: EC 1272/2008	X	The product does not contain nanomaterials.	
Ecodesign 2009/125/EC		Milleteknik's products are intended for professional use and are therefore not directly covered by the Ecodesign Regulation (EU 2019/1782). As some components may be covered, we nevertheless disclose relevant information ^a , where applicable, to provide our customers with confidence in their choice.	

Environ- mental da- ta	J/N	Informație	Other. in- fo.
Machine Directive 2006/42/E C		The product is part of electrical systems, is sub- ject to the relevant electrical and safety directives and is not a machine according to the Machinery Directive (2006/42/EC). Will be replaced by Machinery Regulation (EU) 2023/1230, which will apply in 2027.	
The product is designed for a long service life, which reduces the environmental impact. End-of-life products are handed over to the nearest recycling centre.			

^aStandby consumption and power.



Manufacturer and country of origin

Table 21. Manufacturer and country of origin

Manufacturer ^a	Milleteknik AB
Country of origin	Sweden

^aManufacturer is the trademark indicated on the product, regardless of what is stated in
this product sheet.

APPENDIX

Eligibility requirements, installation

Eligibility requirements vary between countries. The table summarizes national requirements for fixed installation and connection of equipment with a plug socket, respectively.

Options on the secondary side of the product, such as 12 V, 24 V or 48 V DC, are connected according to the respective instructions. Work on the network connection of the product shall be carried out in accordance with national eligibility requirements

Table 22. Eligibility requirements by country. Applies only to the installation of this product in a fixed network connection

Permis- sion Re- quire- ments for In- stalla- tion	Fixed instal- lation (230 V)	Plug	Other. info
Sweden	✓	X	Fixed installation may be performed by technicians but shall be under the responsibility of a qualified installer. (Electrical Safety Act, SS 436 40 00) Plug may be connected without authorization.
Norway	✓	✓	Requirements for qualified electricians also for equipment with a plug socket in fixed installations. (NEK 400, DSB)
Finland	✓	X	Plug may be connected without authorization. (Tukes, SFS 6000)
Denmark	✓	X	Plug may be connected without authorization. (Safety Board)
Germany	✓	X	All fixed installations require a qualified electrician according to VDE 0100. Plug sockets may be connected without authorization, but only by person with basic electrical knowledge ("Elektrotechnisch unterwiesene Person")

Reference table: environmental classes according to EN 50130-5 (referred to in EN 50131-6)

Table 23. Reference table: environmental classes according to EN 50130-5 (referred to in EN 50131-6)

Class	Type	Temperature range
Environmental Class 1	Heated indoors (type office/residence).	+5°C to +40°C
Environmental Class 2	Generally indoors (type warehouses/stairwells, not temperature controlled).	-10°C to +40°C
Environmental class 3	Protected outdoors.	-25°C to +50°C
Environmental class 4	Generally outdoors.	-25°C to +60°C

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