

Mercor Light&Vent sp. z o.o. ul. Grzegorza z Sanoka 2 80-408 Gdańsk

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OPERATION AND MAINTENANCE MANUAL

Operating instructions



Power supply equipment

Output Module – Extension Module

type:

mcr R0424-1

mcr R0424-2

mcr R0448-1

mcr R0448-2

mcr R0448-4

mcr R0424-K

mcr R0448-K

Nr dok: HO.25.00812.docx rew.: A Status: Wydany

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We recommend to preserve this manual inside the unit for future reference.

The mcr R04xx Extension Module meets the requirements of **EN 12101-10:2005 + AC:2007 standard** and the essential requirements of EU directives: 2014/35/EU (LVD) concerning electrical equipment designed for use within certain voltage limits;

2014/30/EU (EMC) regarding electromagnetic compatibility.



Related documents:

- Certificate of Constancy of Performance CNBOP-PIB No. 1438-CPR-0590 confirming compliance with the requirements of EN 12101-10:2005+AC:2007,
- Declaration of Performance No. 005/L&V/HO/2025 of 11.07.2025,
- EU Declaration of Conformity No. 009/L&V/HO/2025 of 11.07.2025.

The above documents can be downloaded from the website of Mercor Light&Vent sp. z o.o. - www.mercor.com.pl

Thank you for choosing mcr R04xx extension module. Please read this manual carefully and follow the instructions before working on the device. This will ensure correct and trouble-free operation.

Mercor Light&Vent sp. z o.o. is not liable for damages resulting from improper use of the device.

Mercor Light&Vent sp. z o.o. reserves the right to make changes to this manual without prior notice.

Mercor Light&Vent sp. z o.o.

Waste electrical and electronic equipment should be collected selectively and then subjected to recovery and recycling processes!



1. Introduction

This operation and maintenance manual will make the user familiar with the purpose, design, principle of operation, proper installation and operation of mcr R extension modules in versions mcr R0424-1, mcr R0424-2, mcr R0448-1, mcr R0448-2, mcr R0448-4, mcr R0424-K, mcr R0448-K. The manual includes also additional information about the conditions of use, maintenance and warranty of the product.

Observance of the recommendations included in technical and user documentation will ensure proper functioning of the smoke ventilation systems and safety of the system users.

Mercor Light&Vent sp. z o.o. reserves the right to make changes in the product or in this document without notice.

2. Intended use

The mcr R04xx extension modules are part of a smoke control system which also includes other Mercor Light&Vent sp. z o.o. products, such as: mcr PROLIGHT, mcr S-THERM, mcr ULTRA-THERM point smoke exhaust vents, smoke vents integrated in continuous rooflights and skylights of the mcr PROLIGHT system, smoke control units mcr 9705 and mcr 0204 and others.

The mcr R04xx extension modules are used for the control and supply of 24 V= voltage to electric actuators installed in mcr PROLIGHT, mcr S-THERM, mcr ULTRA-THERM smoke exhaust vents, smoke exhaust windows equipped with MCR W or MCR L actuators, mcr PROSMOKE FS CE curtains (mcr R0424-1, mcr R0424-2, mcr R0448-1, mcr R0448-2, mcr R0448-4 modules) or to control and supply with 24V= voltage electric motors of mcr PROSMOKE CE/C1 smoke curtains (mcr R0424-K, mcr R0448-K modules). The modules can also be used to power other devices (of other manufacturers), **only after checking interoperability and issuing an appropriate**

written statement by Mercor Light&Vent sp. z o.o.

Making options:

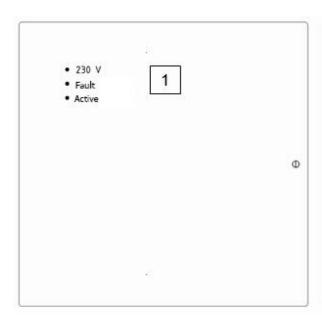
mcr R0424-1
mcr R0424-2
mcr R0424-2
mcr R0424-K
mcr R0424-K
mcr R0448-1
mcr R0448-2
mcr R0448-4
mcr R0448-4
mcr R0448-4
mcr R0448-K
mcr R0448-K
mcr R0448-K
ncr R044

The mcr R04xx extension modules are designed to work with the mcr 9705 and mcr 0204 control units, which control the module functions, correctness of its operation (module status) and continuity of the panel-module and module-actuators lines.

3. Design and operation

The extension modules comprise the following key components:

- 1. enclosure with module status indicators on the door;
- 2. supply and battery charging circuits (configuration depending on the module version, T1, U1, U2, C1, Z1);
- 3. control system (US);
- 4. set of relays (number depends on module version, K1÷K5);
- 5. battery bank (B1, B2);
- 6. terminal block with fuses (F1÷F6).



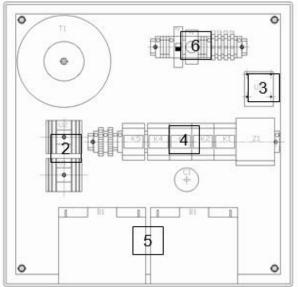


Fig. 1. Extension module (on the left - view of the door, on the right - inside the enclosure - mcr R0448-4 version).

The unit's steel enclosure, painted light gray (~RAL7035), is designed for surface mounting, with the option of leading the wires out from the top or back. The enclosure door are lockable with a key.

Items 2, 3, 4, 6 are placed inside the enclosure on the mounting plate. Batteries B1, B2 (items 5) are seated on the bottom of the enclosure and connected to the corresponding terminals.

The output lines of the device (to actuators) and the battery circuit are protected against short circuit by fuses; the number of fuses and their rating depends on the module version. The module also has an overcurrent protection switch F1 for the 230 V~ supply network, rated at D 10 A.

Module	Fuse				
type	F2	F3	F4	F5	F6
0424-1	25 A				
0424-2	25 A	12 A	12 A		
0448-1	50 A				
0448-2	25 A	25 A			
0448-4	50 A	12 A	12 A	12 A	12 A
0424-K	25 A				
0448-K	50 A				

Tab. 1. Fuse rating summary

The device is equipped with indication of the following states:

- 1. Power supply 230 V~ present green LED on,
- 2. Fault yellow LED on + signal transmitted to the control unit (active in case of: 230V~ mains power failure, batteries missing or discharged, output line damage).
- 3. Actuator operation yellow LED on.

For operation it is necessary to connect the module input to the actuator output of the mcr 9705 or mcr 0204 control unit. Only one extension module can be used per control unit actuator output. The modules can be connected in a cascade, i.e. the input of the next module can be connected to the output of a module.

The module activates the actuators according to the signals from the control unit at the actuator line output (opens on alarm, closes after alarm reset, opens and closes for venting).

If the 230 V~ mains power supply to the module or the control unit is missing, the smoke vents can only be opened in the event of an alarm; the ventilation function is blocked to protect the batteries from discharging.

Caution: do not leave the unit without mains power for more than 72 h with the batteries connected, due to the possibility of damage to the batteries. In case of using the module to power mcr PROSMOKE FS CE curtains, this time is up to 6.5 h (see operation and maintenance manual for mcr PROSMOKE FS CE curtains).

4. Transport, delivery, storage

The modules are delivered assembled in individual packages. Batteries are supplied separately. The devices should be stored in dry rooms, in temperatures 0°C÷40°C.

5. Module mounting

The module should be mounted near the devices it controls, in a location that allows access to the device. During mounting, disconnect all power sources to the equipment being installed.

Use conductor types compliant with the local regulations, with appropriate cross sections.

Install the module in the following order:

- 1. Fix the enclosure to the wall with steel fasteners matched to the substrate material: fasteners with a minimum diameter of Ø8, e.g. M8, are recommended (note: do not drill holes in walls through the enclosure).
- 2. Make electrical connections according to the attached diagrams (connect control units, actuators, line termination resistors).
- Connect the unit to the mains supply. Attach the connectors to the battery terminals. Turn on the overcurrent circuit breaker inside the enclosure. The 230 V~ LED should light up. The ACTIVE and FAULT LEDs should remain unlit; when connected to the mcr 9705 control unit with door automation function, the ACTIVE LED will be lit.
- 4. Verify system operation by sounding the alarm from all available sources.
- 5. The device is ready to operate after the batteries are charged (up to 48 h after the first mains connection, if the connected actuators are not used).

6. Operation

The module is basically a maintenance-free device; however, to ensure the efficiency of the smoke ventilation system the condition of the device should be checked according to the following list:

- 1. Check the status of the module's control units whether they signal any damage (daily).
- 2. Check the power supply to the extension modules (every 3 days or so). If the power supply decay has lasted (or is suspected to have lasted) for more than 72 hours, an authorised Mercor Light&Vent sp. z o.o. service centre should be called to check the batteries' condition. In case of using the module to power mcr PROSMOKE FS CE curtains, this time is up to 6.5 h (see operation and maintenance manual for mcr PROSMOKE FS CE curtains)
- 3. Verify system operation by activating the alarm signal, then clear the alarm signal. Check that connected devices have opened and closed correctly (1 time per month).

7. Service and maintenance

The technical condition of fire-fighting equipment installed in the facility is critical to ensuring the safety of the facility's users. A guarantee of reliable operation of the equipment can only be achieved by providing regular and professional service.

Mercor Light&Vent sp. z o.o. equipment should be subjected to **periodical technical inspections** and maintenance operations **every 6 months** during the entire period of operation, i.e. during the warranty period, as well as after the warranty period. Inspections and maintenance should be carried out **by the manufacturer** or by companies with valid authorization to service Mercor Light&Vent sp. z o.o. equipment.

Maintenance carried out in accordance with the above recommendations is one of the basic conditions for maintaining the rights under warranty and the obligation of users/owners or managers of facilities under the law.

Physical access to the equipment is required to perform maintenance as well as service and warranty activities such as inspections and repairs.

It is recommended to perform the following between inspections:

- 1. Check the status of the indicator LEDs.
- 2. Check the condition of electrical connections, paying particular attention to clearances and mechanical damage.

In matters related to technical inspections, maintenance and repairs of the equipment you may consult the representatives of Mercor Light&Vent sp. z o.o. service, phone 58/341 42 45 from 8 a.m. to 4 p.m., e-mail: serwis@mercor.com.pl.

8. Warranty terms and conditions

- 1. Mercor Light&Vent sp. z o.o. grants a 12-month quality guarantee for equipment, starting from the date of purchase, unless the agreement provides otherwise.
- 2. If during the term of guarantee any physical defects of the equipment become evident, Mercor Light&Vent sp. z o.o. shall remove them within 21 days of the written notification, subject to paragraph 6.
- 3. Mercor Light&Vent sp. z o.o.. reserves the right to lengthen the repair time in the event of complicated repairs or those that require non-standard sub-assemblies [elements] or spare parts to be purchased.
- 4. Liability under the Guarantee covers only defects resulting from causes inherent in the equipment sold.
- 5. In the event of defects resulting from inappropriate operation of the equipment or due to other reasons stated in par. 6, the Buyer/Guarantee Holder shall bear the costs of their removal.
- 6. The guarantee does not cover:
 - damages and breakdowns of the equipment due to inappropriate operation, user's interference, lack of maintenance or periodic servicing;
 Smoke and Heat Exhaust Control Unit mcr 9705 - User Instruction Manual;
 - equipment damages resulting from causes other than those that Mercor Light&Vent sp. z o.o. is responsible for, in particular: acts of God such as torrential rainfall, flood, hurricane, flooding, stroke of thunder, overvoltage in the mains, explosion, hail, fall of aircraft, fire, avalanche,

landslide and secondary damages due to the above-listed causes. Torrential rain is defined as rain with an efficiency index of at least 4 (or 5 in Chomicz scale or torrential rain grade IV (A4)). Should it be impossible to determine the index mentioned in the previous sentence, the actual condition and the degree of damage at the place of its origin proving that it is the consequence of torrential rain will be considered. Hurricane is defined as wind blowing at the speed of at least 17.5 m/s (damages are deemed to have been caused by hurricane if the effects of hurricane have been found in the immediate neighborhood);

- damages due to failure to immediately report the defect discovered;
- worsened quality of coating due to the natural ageing process (fading, oxidation);
- defects due to using abrasive or aggressive cleaning products;
- parts liable to natural wear and tear during operation (e.g. seals) unless a manufacturing fault has occurred;
- damages due to aggressive external factors, especially chemical and biological ones.
- 7. Each defect under guarantee should be reported to a local representative of Mercor Light&Vent sp. z o.o. immediately, i.e. within 7 days of its discovery.
- 8. Applications can be made by phone at +48/ 58 341 42 45, by email to claim@mercor.com.pl or by sending a letter to: Mercor Light&Vent sp. z o.o.. 80-408 Gdańsk, Grzegorza z Sanoka 2.
- 9. The Buyer/Guarantee Holder is responsible for proper operation and maintenance of the equipment and for regular (min. twice a year) servicing.
- 10. The Guarantee shall expire forthwith if:
 - The Buyer/Guarantee Holder makes design modifications on his own without consulting Mercor Light&Vent sp. z o.o.,
 - Maintenance or periodic servicing are not done in due time or are performed by unauthorized persons or a service center not authorized by Mercor Light&Vent sp. z o.o., or the equipment is operated in the wrong way,
 - Any interference of unauthorized persons except activities connected with normal operation of the equipment.
- 11. Moreover, in the cases specified in par. 10, Mercor Light&Vent sp. z o.o. has no warranty obligations.

As regards matters not regulated by these "Warranty terms and conditions", relevant regulations in the Civil Code, and in particular Art. 577-581 shall apply.

9. Technical specification

Parameter	Value
Supply	230 V, 50 Hz,
mcr R0448	1500 VA max;
mcr R0424	750 VA max;
Recommended mains circuit protection	type D
Voltage on output line(s)	24 V=
Batteries used	2x 12 V, 22 Ah, e.g. EUROPOWER EV 22-12
Battery charging voltage	27.2 V ±0.2 @ 20°C
Compatible control units	mcr 0204, mcr 9705
Control line voltage	24 V= ±15%;
Resistance of the control input	750 Ω
Operating temperature range	-5°C ÷ 40°C
Environmental class of the power supply according to EN 12101-10	I
Enclosure protection grade	IP54
Resistance of output line continuity check resistors	10 kΩ
Standby time without mains voltage (after this time the module can start the connected devices once)	72 h
Number of control groups	1
Load capacity and number of output lines	I
mcr R0424-2	2x output lines of max 12 A
mcr R0424-1	1x output line of max 24 A
mcr R0448-4	4x output lines of max 12 A
mcr R0448-2	2x output lines of max 24 A
mcr R0448-1	1x output line of max 48 A
mcr R0424-K	nx output lines - max 24 A
mcr R0448-K	nx output lines - max 48 A
	n – number of output lines
	n = 1 ÷ 10
	(depends on power
	consumption of individual
	smoke curtain)
Load capacity of the output control lines for mcr R0424-K, mcr R0448-K modules	max 0.5 A
Battery protection	
mcr R0424	25 A
mcr R0448	50 A
Device dimensions (H x W x D)	600 x 600 x 200 mm
Maximum cable cross-section on output lines	10 mm ²

10. Wiring diagrams

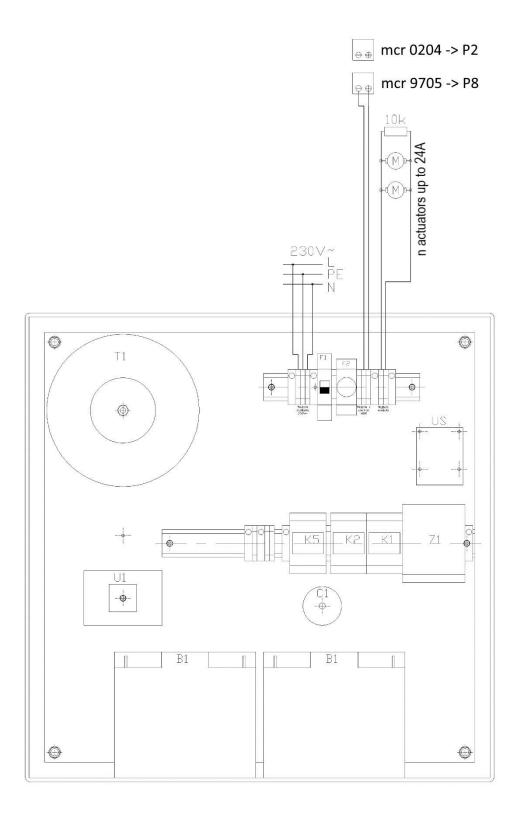


Fig. 2. Wiring diagram for mcr R0424-1 module for use with smoke vent actuators.

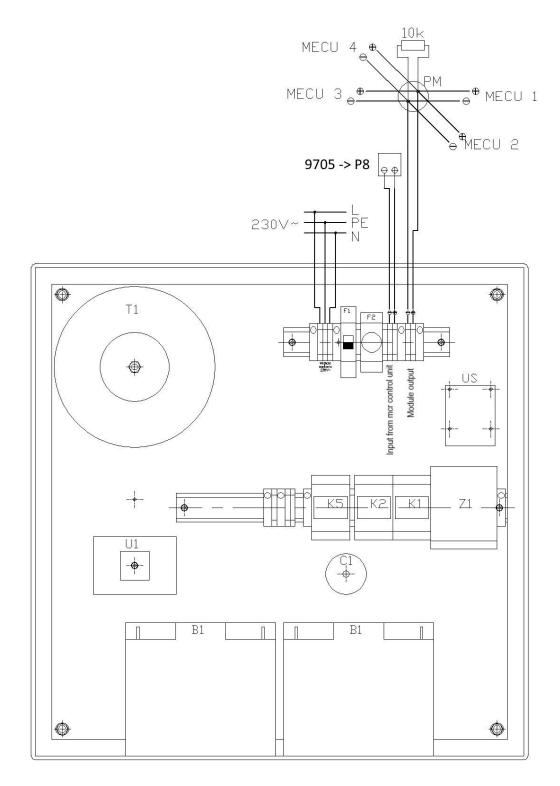


Fig. 3. Wiring diagram for mcr R0424-1 module for use with mcr PROSMOKE FS CE curtain unit

PM - installation box (in close proximity to mcr PROSMOKE FS CE curtains). MECU - curtain control unit

Note:

- additional information in Technical and Operation Documentation of mcr PROSMOKE FS CE curtains
- 2. max. number of mcr PROSMOKE FS CE curtain modules acc. to curtain's operation and maintenance manual.

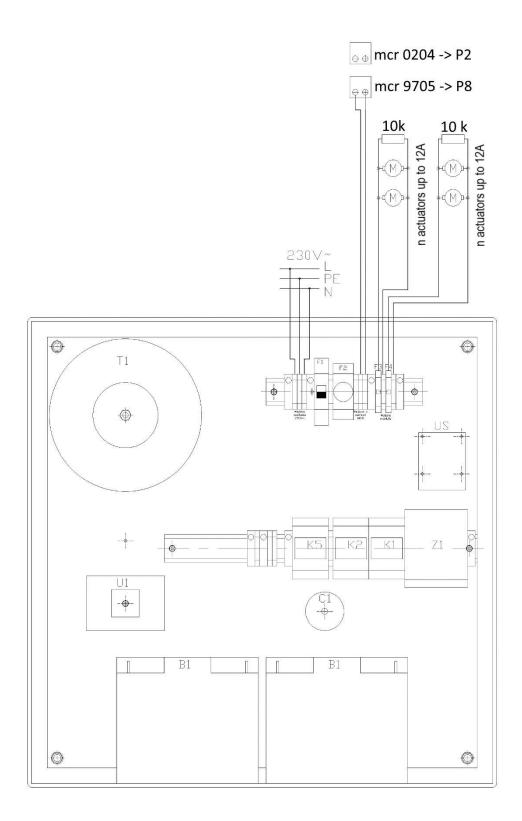


Fig. 4. Wiring diagram for mcr R0424-2 module

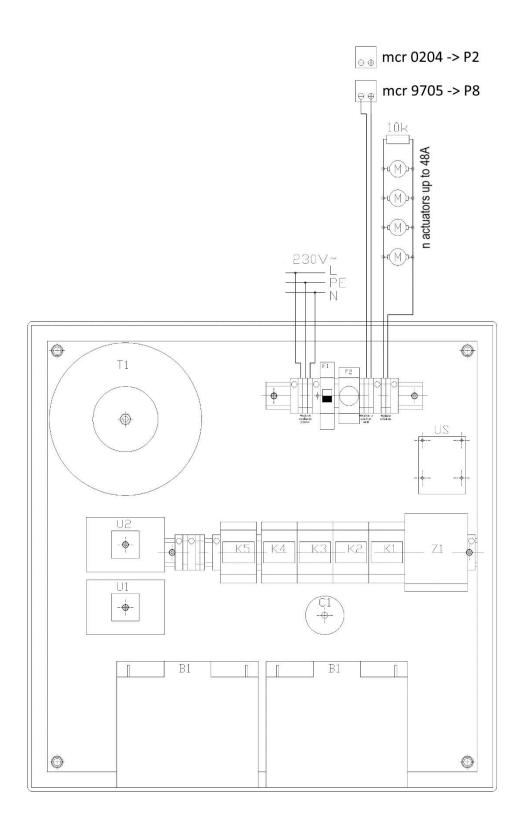


Fig. 5. Wiring diagram for mcr R0448-1 module

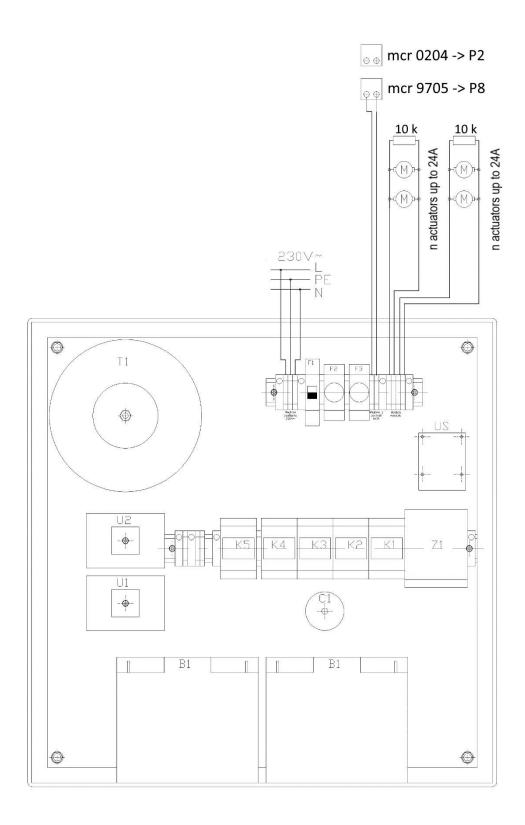


Fig. 6. Wiring diagram for mcr R0448-2 module

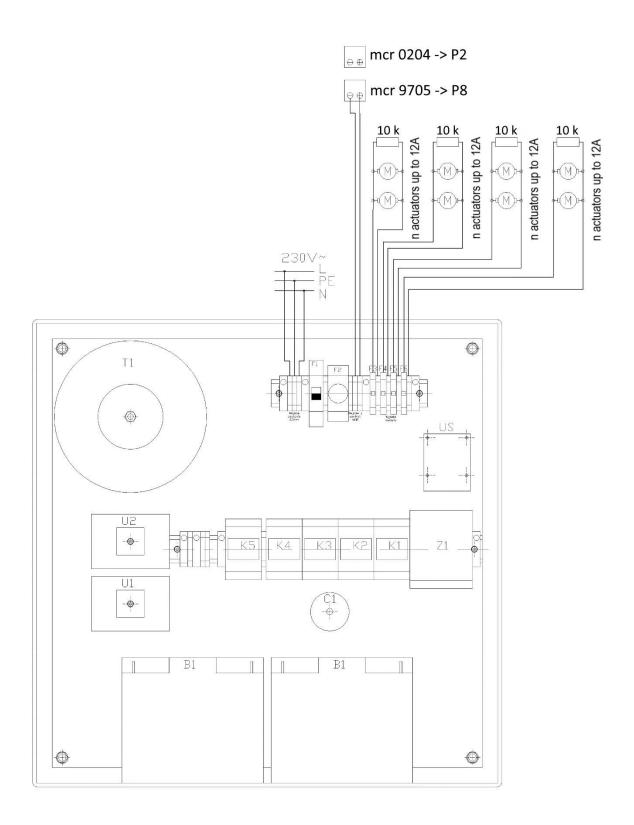


Fig. 7. Wiring diagram for mcr R0448-4 module

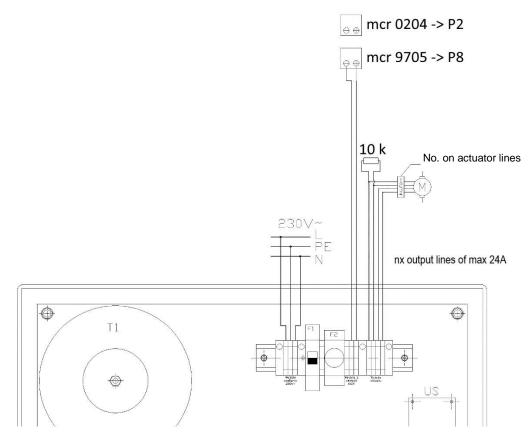


Fig. 8. Wiring diagram for mcr R0424-K module

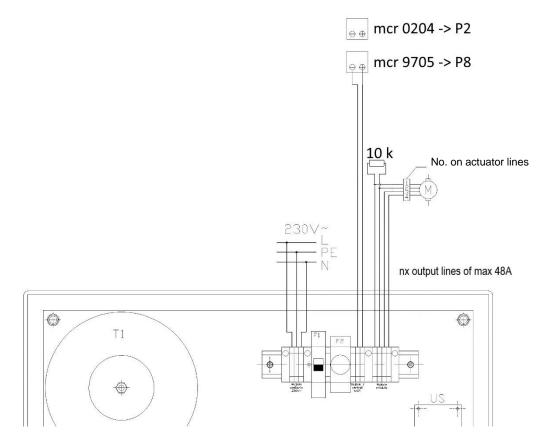


Fig. 9. Wiring diagram for mcr R0448-K module

11. Certificate of Constancy of Performance



JEDNOSTKA NOTYFIKOWANA / NOTIFIED BODY 1438

Centrum Naukowo-Badawcze Ochrony Przeciwpożarowej

im. Józefa Tuliszkowskiego

Państwowy Instytut Badawczy

ul. Nadwiślańska 213, 05-420 Józefów

Polska / Poland



CERTYFIKAT STAŁOŚCI WŁAŚCIWOŚCI UŻYTKOWYCH CERTIFICATE OF CONSTANCY OF PERFORMANCE 1438-CPR-0590

Zgodnie z Rozporządzeniem Parlamentu Europejskiego i Rady (UE) 305/2011 z dnia 9 marca 2011 r. (Rozporządzenie CPR), niniejszy certylikat odnosi się do wyrobu budowtanego:

Zasiłacz do systemów kontroli rozprzestrzeniania dymu i ciepła – moduł wyjściowy – moduł rozszerzający typu mcr R0424 i mcr R0448 <Opis wyrobu, zamierzone zastosowanie, właściwości użytkowe patrz kolejne strony certyfikatu> wprowadzanego do obrolu pod nazwą handlową lub znakiem firmowym producenta:

In compliance with Regulation 305/2011/EU of the European Parliament and of the Council of 9 March 2011 (the Construction Products Regulation or CPR), this certificate applies to the construction product:

Mercor Light&Vent Sp. z o.o. ul. Grzegorza z Sanoka 2 80-408 Gdańsk

i wytwarzanego w zakładzie produkcyjnym:

and produced in the manufacturing plant:

GAL – Stanisław Chamski ul. Polna 11 80-209 Tuchom

Niniejszy certyfikat potwierdza, że wszystkie postanowienia dotyczące oceny i weryfikacji stalości właściwości użytkowych określone w załączniku ZA normy: This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the standard:

EN 12101-10:2005 Smoke and heat control systems – Part 10: Power supplies EN 12101-10:2005/AC:2007

w ramach systemu 1 w odniesieniu do właściwości użytkowych określonych w niniejszym certyfikacie są stosowane oraz że producent wdrożyt zakladową kontrolę produkcji, która jest oceniana w celu zapewnienia stałości właściwości użytkowych wyrobu budowlanego.

Niniejszy certyfikat został wydany po raz pierwszy w dniu 26.03.2018 i pozostaje ważny, zgodnie z umową nr 17/DC/CPR/2018, do dnia 25.03.2028 dopóki nie zmieni się norma zharmonizowana, sam wyrób budowlany, metody OiW SWU i warunki jego wytwarzania nie ulegną istotnej zmianie oraz pod warunkiem, że nie zostanie zawieszony, cofnięty lub nie nastąpi zakończenie certyfikacji przez notyfikowaną jednostkę certyfikując wyrób. under system 1 in relation to the performance set out in this certificate are applied and that the manufacturer has implemented factory production control, which is assessed to ensure constancy of performance of the construction product.

This certificate was first issued on 26.03.2018 and will remain valid, in accordance with the agreement no 17/DC/CPR/2018, until 25.03.2028 as long as neither the harmonised standard, the standard, the struction product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended, withdrawn or terminated by the notified product certification body.

Nr wydania certyfikatu: 2 Certificate issue no:

Data wydania: Issue date: 03.06.2025

DYREKTOR CNBOP-PIB DIRECTOR of CNBOP-PIB

st. bryg. dr inż. Paweł Janik

DC/CPR-13/12.09.2016

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Centrum Naukowo-Badawcze Ochrony Przeciwpożarowej

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Państwowy Instytut Badawczy

ul. Nadwiślańska 213, 05-420 Józefów

Polska / Poland



CERTYFIKAT STAŁOŚCI WŁAŚCIWOŚCI UŻYTKOWYCH CERTIFICATE OF CONSTANCY OF PERFORMANCE 1438-CPR-0590

Nazwa wyrobu budowlanego: Name of construction product:	Zasiłacz do systemów kontroli rozprzestrzeniania dymu i ciepta – moduli wyjściowy – moduli rozprzestrzeniania dymu i ciepta – moduli rozprzestrzeni	
Deklarowane zamierzone zastosowanie: Declared performance:	Bezpieczeństwo pożarowe Fire salety	
Europejska norma zharmonizowana: European harmonised standard:	EN 12101-10:2005+AC:2007 Smoke and heat control systems - Part 10: Power supplies	

Opis wyrobu / Product description

Dane p	odstawowe / Basic data	THE STATE OF THE S	
Typ wyrobu / Product type	mcr R0424	mcr R0448	
Rodzaj zasilania / Type of power supply	elektryczne / electric		
Zakres temperatur pracyi Operating temperature	-5°C + +40°C		
Stopień ochrony obudowy IPT IP protection	IP 54		
Typ obudowy i wymiery (długość x szerokość x wysokość) [mm] Enclosure type and dimensions (Length x Width x Height) [mm]	600 × 600	x 200 mm	
Klasa funkcjonalna wg EN 12101-10:2005+AC:2007 Functional class according to EN 12101-10:2005+AC:2007	A		
Klasa środowiskowa wg EN 12101-10:2005+AC:2007 Environmental class according to EN 12101-10:2005+AC:2007	1		
Wyjściowy grąd obciążenia L _{ma x} / Output operating current L _{ma x}	0.1 A		
Wyściowy prąd obciążenia I _{maco} / Output operating current I _{maco}	24 A	48 A	
Obwody wyjściowe: zakres napięć wyjściowych zasiłacza Output circuits: range of output voltage	24 V DC		
Zasilanie į	odstawowe i Main supply		
Zasilanie podstawowe: napięcie zasilania / Main suppty: supply voltage	230 V AC		
Obwody wejściowe: liczba wejść / nput circuits: number of inputs		1	
Alkeymalny pober prądu z sieci / Askimum cument consumption	33A 6.5A		

Nr wydania certyfikatu: Certificate issue no:

2

Data wydania: Issue date: 03.06.2025

ANTECHNOLIS CHARLES OF THE PROPERTY OF THE PRO

DYREKTOR CNBOP-PIB DIRECTOR of CNBOP-PIB

st. bryg. dr inż. Paweł Janik

DC/CPR-13/12.09.2016

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ul. Nadwiślańska 213, 05-420 Józefów

Polska / Poland



CERTYFIKAT STAŁOŚCI WŁAŚCIWOŚCI UŻYTKOWYCH CERTIFICATE OF CONSTANCY OF PERFORMANCE 1438-CPR-0590

Nazwa wyrobu budowlanego: Name of construction product:	Zasilacz do systemów kontroli rozprzestrzeniania dymu i ciepła – modul wyjściowy – modul rozszerzający typu mor R0424 mor R0448 Power supply equipment for smoke and heat control systems – output module – extension module type mor R0424 and mor R0448	
Deklarowane zamierzone zastosowanie: Declared performance:	Bezpieczeństwo pożarowe Five safety	
Europejska norma zharmonizowana: European harmonised standard:	EN 12101-10:2005+AC:2007 Smoke and heat control systems - Part 10: Power supplies	

Opis wyrobu / Product description

Zasilanie rezerwowe / Reserve supply			
Typ akumulatorów / Power Supply: Battery type	szczelne, kwasowo ołowiowe (EUROPOWER EV 22-12) seaf, lead-acid (EUROPOWER EV 22-12)		
Maksymalny prad ladowania akumulatorów Maximuro current of battery charging	2,3 A		
Maksymaina wewnętrzna rezystancja baterii i przyłączonych do niej elementów obwodu. Maximai internal resistance of the battery and elements connected to the battery circuit			
Maksymaina pojemność akumulatorów / Maximum battery capacity	22 Ah		
Napięcie ładowania akumulatorów w trybie pracy buforowej Baffery charge voltage in ficating mode	++0		
Kompensacja temperaturowa napięcia w trybie pracy bulorowej Temperature compensation in Ibating mode	-		

Elementy składowe zasilacza (zgodne z dokumentacją techniczną v3 MCR R-04XX z dnia 18.09.2016); DOP-1C; M-0448-200; PWS-40RM-27.2/st (Potwat) lub EUN-60-27D (Mean Wel); kondessatory; akumulator EUROPOWER EV 22-12; mostek z radiatorem A4240 L70; dlody LED: C40A(SE_FAEL); T5T750/497/06; T5T1500/497/06; bazpiscznik topikowy; obudowa SAREL.

Power supply components (in accordance with technical documentation v3 MCR R-04XX dated 18.09.2006): DOP-1C: M-0449-200; PWS-40RM-27.2/st (Polwet) or ELN-80-27D(Mean Well)capacitors: battery EUROPOWER EV 22-12; bridge with heats/nk A4240 L70; diode LED; C40N(GE,FAEL); TST750/497/06; TST1900/497/06; has: enclosure SAREL.

Charakterystyka funkcji zasilania w zakresie systemów kontroli rozprzestrzeniania dymu i ciepła / Characteristics of the product functions in field of smoke and heat control systems

1. Zasilanie elektryczne / electric power supply:

 a) zasilanie z podstawowego źródła zasilania (elektryczne) – wg 6.1 EN 12101-10:2005+AC:2007 power supply from main source (electric) – according to 6.1 EN 12101-10:2005+AC:2007

 zasilanie z rezerwowego źródła zasilania (baterii) – wg 6.2 EN 12101-10:2005+AC:2007 power supply from reserve source (battery) – according to 6.2 EN 12101-10:2005+AC:2007

 zasilanie z rezerwowego źródła zasilania (prądnic) – wg 6.3 EN 12101-10:2005+AC:2007 power supply from reserve source (generator) – according to 6.3 EN 12101-10:2005+AC:2007

 rozpoznawanie i sygnalizacja uszkodzeń (elektrycznych) – wg 6.4 EN 12101-10:2005+AC:2007 detection and signaling of faults (electric) – according to 6.4 EN 12101-10:2005+AC:2007

* Dotyczy punktów a + d zgodnie z pkt. 6.4 EN 12101-10:2005+AC:2007 Applicable for points a + d in accordance with point 6.4 EN 12101-10:2005+AC:2007 tak / yes

tak / yes

nie dotyczy / not applicable

tak / yes*

Nr wydania certyfikatu: 2 Certificate issue no:

Data wydania: Issue date: 03.06.2025

POTECINO DE LA CONTRACTOR DEL CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR

DYREKTOR CNBOP-PIB DIRECTOR of CNBOP-PIB

st. bryg. dr inż. Paweł Janik

DC/CPR-13/12.09.2016

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JEDNOSTKA NOTYFIKOWANA / NOTIFIED BODY 1438

Centrum Naukowo-Badawcze Ochrony Przeciwpożarowej

im. Józefa Tuliszkowskiego

Państwowy Instytut Badawczy

ul. Nadwiślańska 213, 05-420 Józefów

Polska / Poland



CERTYFIKAT STAŁOŚCI WŁAŚCIWOŚCI UŻYTKOWYCH CERTIFICATE OF CONSTANCY OF PERFORMANCE 1438-CPR-0590

Nazwa wyrobu budowlanego: Name of construction product:	Zasilacz do systemów kontroli rozprzestrzeniania dymu i ciepta – modul wyjściowy – modul rozszerzający typu mor R0424 i mcr R0448 Powar supply oquipment for smoke and heat control systems – output module – extension module type mcr R0424 and mcr R0448	
Deklarowane zamierzone zastosowanie: Declared performance:	Bezpieczeństwo pożarowe Fire safety	
Europejska norma zharmonizowana: European harmonised standard:	EN 12101-10:2005+AC:2007 Smoke and heat control systems - Part 10: Power supplies	

Wykaz właściwości użytkowych / Table of performance

Lp.	Zasadnicze charakterystyki wyrobu	EN 12101-10: 2005+AC:2007	Właściwości	
No.	Essential characteristics of the product	Rozdział Clause	Performance 1) 2)	
Nieza	awodność eksploatacyjna / Operational reliability			
1	Funkcje / Functions	6	Spelnia / Pass	
2	Materialy, konstrukcja i wykonanie / Materials, design and manufacture	7	Spelnia / Pass	
Para	metry eksploatacyjne w warunkach pożaru / Operating parameters in fire conditions)			
3	Postanowienia ogólne / General provisions	4.1	Spelnia / Pass	
4	Žrbdla zasilania – postanowienia ogólne / Power supply source – general provisions	5.2.1	Nie dotyczy / Not applicable	
Czas	zadziałania / Response time	CONTRACTOR OF THE PARTY		
5	Postanowienia ogólne / General provisions	4.1	Spelnia / Pass	
6	Žródla zasilania – postanowienia ogólne / Power supply source – general provisions	5.2.1	Nie dotyczy / Not applicable	
7	Zasilanie z rezerwowego źródla zasilania (baterii) / Power supply from reserve sourse (bettery)	6.2.2	Speinia / Pass	
8	Zasilanie z rezerwowego źródia zasilania (prądnic) / Power supply from reserve sourse (generator)	6.3.1	Nie dotyczy / Not applicable	

JPD' (§, właściwości użytkowe nieustalone, ang. No Performance Determined) oznacza, że właściwości użytkowe nie zostały ustalone przez CNBOP-PIB.
WPD' (ie. No Performance Determined) means that performances were not determined by CNBOP-PIB.

Nr wydania certyfikatu: Certificate issue no:

Data wydania: Issue date:

03.06.2025

DYREKTOR CNBOP-PIB DIRECTOR of CNBOP-PIB

st. bryg. dr inż. Paweł Janik

DC/CPR-13/12.09.2016

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Zapis "Nie dotyczy" oznacza, że zasadnicza charakterystyka nie ma zastosowania dla danego wyrobu. "Not applicable" means that the essential characteristic does not apply to the product in question.

12. Declaration of Performance



Fire protection systems

Mercor Light&Vent sp. z o.o. ul. Grzegorza z Sanoka 2 80-408 Gdańsk

tel. (+48) 58 341 42 45

Declaration of Performance

Declaration no.: 005/L&V/HO/2025

Unique identification code of the product-type
Output module

Output module - extension module type mcr R0424 and mcr R0448

2. Intended use or uses of the construction product

Fire safety – Power supply equipment to be used in smoke and

heat control systems

3. Name and contact address of the manufacturer

Mercor Light&Vent sp. z o.o., ul. Grzegorza z Sanoka 2,

80-408 Gdańsk, Poland

Name and contact address of the production plant

GAL - Stanisław Chamski, ul. Polna 11, 80-209 Tuchom, Poland

4. Name and contact address of the authorised representative

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System(-s) of assessment and verification of constancy of performance 1

6a. Harmonised standard

EN 12101-10:2005+AC:2007

Name and identification number of the notified body

Centrum Naukowo-Badawcze Ochrony Przeciwpożarowej, 1438

6b. European Technical Assessment

Name and identification number of the Technical Assessment

Body

7. Declared performance:

Essential characteristics of the product	EN 12101-10:2005+AC:2007 Clause	Performance
	Operational reliability	
Functions	6	Pass; I _{max a} = 0,1 A; I _{max b} = 24 A for mcr R0424 I _{max b} = 48 A for mcr R0448
Material, design and manufacture	7	Pass; IP 54, Environmental class I
	Operating parameters in fire condition	ons
General provisions	4.1	Pass; Functional class A
Power sypply source – general provisions	5.2.1	Not applicable
	Response time	
General provisions	4.1	Pass
Power sypply source – general provisions	5.2.1	Not applicable
Power supply from reserve source (battlery)	6.2.2	Pass, Standby mode without main source of power supply = min. 72 h
Power supply from reserve source (generator)	6.3.1	Not applicable

8. Specific Technical Documentation

The performance of the product identified above is in conformity with the declared performance. This declaration of performance has been issued in accordance to regulation no. (EU) 305/2011 on sole responsibility of the manufacturer specified above.

Signed for and on behalf of the manufacturer by:

WICEPREZES ZARZĄDU

Tomasz Kamiński

(Signature)

Gdańsk, 11.07.2025 (Place and date of issue)

KRS 0001107620, District Court Cdańsk-Pólnoc in Gdańsk, VII Economic Department of the National Court Register. Amount of share capital: PLN 27 703 750.00. Tax Identification Number (NIP): 957-117-40-34, EU VAT: PL 957-117-40-34, National Official Business Register (Regon): 528751602, Business ID (BDO): 000664567.