

Technical and Operating Documentation

User Instruction Manual



mcr 0204 Smoke and Heat Exhaust Control Unit

Table of Contents

1. USER INFORMATION.....	2
2. INTRODUCTION.....	3
3. BASIC INFORMATION ABOUT THE UNIT	4
4. OPERATION.....	6
5. ASSEMBLY AND START UP	8
6. INSTRUCTION MANUAL FOR CHECKING CONNECTION AND PERFORMANCE OF THE MCR 0204 CONTROL UNIT	9
7. TYPICAL CONNECTION DIAGRAMS.....	11
8. SERVICE AND MAINTENANCE	12
9. WARRANTY TERMS AND CONDITIONS	12
10. TECHNICAL SPECIFICATIONS	14
11. DECLARATION OF PERFORMANCE.....	15
12. THE CERTIFICATE OF CONSTANCY OF PERFORMANCE	16

We recommend keeping this Instruction Manual inside the control unit, so that the information is always available when required!

1. USER INFORMATION

The mcr 0204 control unit meets the requirements of the National Technical Assessment **CNBOP-PIB-KOT-2017/0014-1009 issue 2** and the essential requirements of EU directives:

- 2014/35/EU (**LVD**) regarding electrical equipment provided for use within certain voltage limits;
- 2014/30/EU (**EMC**) regarding electromagnetic compatibility.

RELATED DOCUMENTS:

- European certification of constancy of performance of construction products **CNBOP-PIB No.1438-CPR-0583** and The Declaration of Performance **No. 092/HO/2018** of 07/03/2018 confirming the compliance of the power supply with the requirements of EN 12101-10: 2007.
- EU Declaration of Conformity **No. 087/HO/2018** dated 07/03/2018.



The above documents can be downloaded from the „MERCOR” S.A company website - www.mercor.com.pl

Thank you for choosing the mcr 0204 control unit. We recommend you to read this User Manual with attention and to apply the recommendations therein. This will ensure smooth and reliable operation of the equipment.

“MERCOR” S.A reserves the right to modify the product or documentation without notice.

We wish to ensure your full satisfaction with our products and we will be glad to provide professional service and assistance to you, should such a need arise.

“MERCOR” S.A.

Electrical and electronic equipment should be disposed of and collected separately.



2. INTRODUCTION

The mcr 0204 control unit is used in smoke exhaust systems to control the operation of electrical actuators, and in particular vent actuators in mcr Prolight and mcr Prolight+ product range and in other mcr series products which require 24 V= voltage power, used for fire protection purposes.

The electrical mcr 0204 unit may be installed near a smoke exhaust window or in the building supervision room. The unit is supplied with 230 V AC voltage. The working constant voltage is 24 V in output terminals to which the devices of the electrical smoke exhaust control system are connected. The unit is equipped with batteries which ensure system operation for 72 hours after a power outage. After that time a single emergency opening of smoke vents is possible.

The unit has the following features:

- manual alarm release by alarm pushbuttons,
- automatic alarm release by smoke sensors,
- transmitting information about alarm (NO/NC signal),
- transmitting information about defect in the system (NO/NC signal),
- remote alarm reset and vent closing,
- manual opening of smoke vents for ventilation of the building during normal operation without activating the alarm status,
- automatic closing of smoke vents opened for ventilation, in the case of rain or strong wind (when a weather monitoring unit with a wind-rain sensor is install diode).

The mcr 0204 unit features visual indicators of its operating status, repeated on alarm pushbuttons, which allows easy identification of alarm status or a system defect.

Smoke exhaust vents which were opened in emergency mode can be closed (cancellation of the alarm) after the cause of the alarm has been removed.

If the smoke exhaust manual pushbutton mcr RPO-1 is connected, this allows remote operation of the unit (defect and alarm signal, remote alarm reset and vent closing after the alarm).

3. BASIC INFORMATION ABOUT THE UNIT

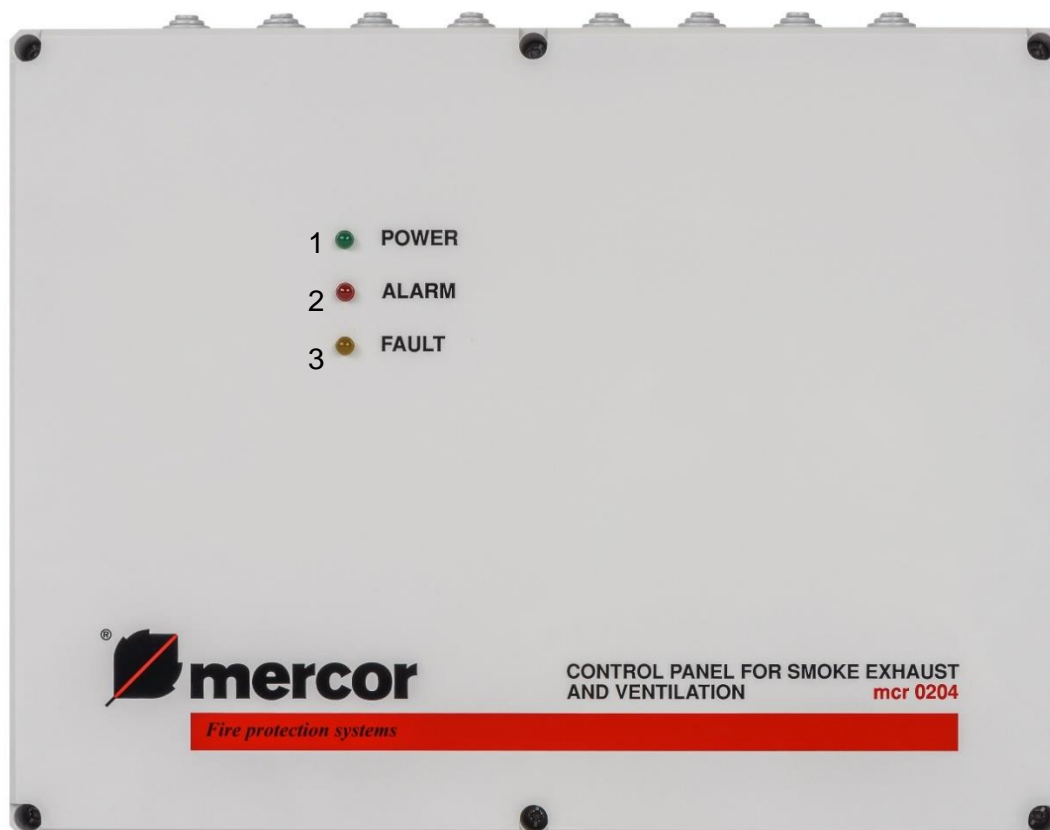


Fig. 1 Front panel of the unit.

On the front panel there are diode indicators which inform the user about the unit's status.

No.	Description	Colour	Function
1	POWER	green	presence of both sources of supply
2	ALARM	red	visual alarm notification
3	FAIL	yellow	general system defect/failure signal

The FAIL diode is blinking when mains voltage 230 V is not present.

The front panel of unit is attached by means of six screws, which can be released using a special screwdriver.

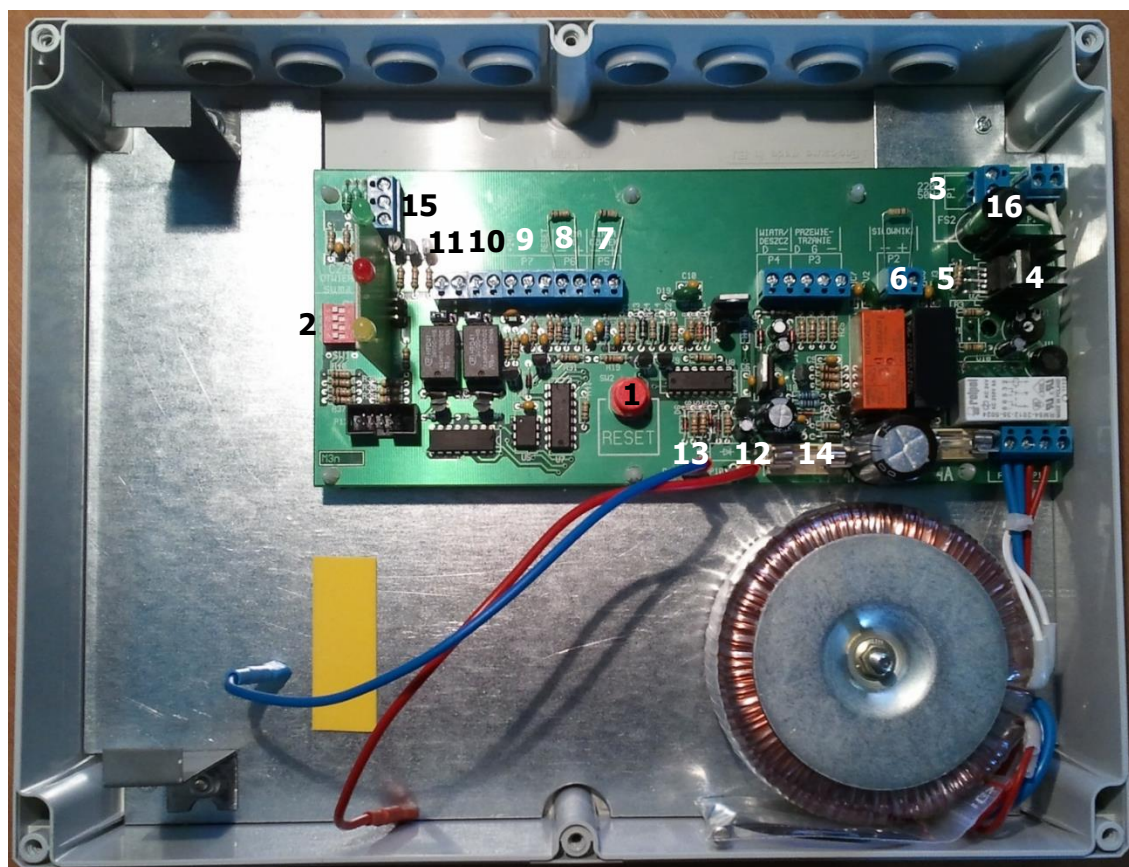


Fig. 2 View of the unit's interior.

On the unit module's PCB there is a RESET (1) pushbutton. It allows to cancel the alarm after the original cause of the alarm has been eliminated. **Press and hold down the button for at least one second!**

In the left part of the unit module's PCB there is a four-position switch SW1 (2), designed to set the opening time for actuators during ventilation. The opening time is the sum of times corresponding to the segments of the SW1 switch which are switched to the ON position.

Switch position	Time
SW1-1	12 s
SW1-2	24 s
SW1-3	48 s
SW1-4	96 s

Note: the default setting SW1-1 through SW1-4 — ON position.

Along the top edge of the module's PCB there are terminal strips which are used for connecting the elements of the system:

No.	Description	Function
3	P1	power input 230 V, 50 Hz
4	P2	output to actuators (-,+)
5	P3	ventilation input (G-top, D-bottom, \perp - joint, closing contacts)
6	P4	input for wind/rain controls (closing contact)
7	P5	sensors line (+,-)
8	P6	push-buttons line (+,-)
9	P7	auxiliary power/ alarm reset input (+,-, reset)
10	P8	defect indication output - relay contact
11	P9	alarm indication output - relay contact
15	P14	RPO-1 indication output (1, 2, 3)

Moreover, in the bottom part of the PCB:

12	P10	positive end of battery
13	P11	negative end of battery

Fuse on the PCB (14) FS1 - batteries protection (4 A quick).

Fuse on the PCB (16) FS2 - mains line 230 V protection (125 mA quick).

4. OPERATION

4.1 Normal operation

On the front panel (Fig. 1) the green diode indicator for POWER is on.

Description of diode indicators on the front panel:

POWER	ALARM	FAIL	UNIT STATUS	
	+		ALARM	<input type="checkbox"/> ANY STATUS
+	-	-	NORMAL OPERATION	+ ON
-		+	BATTERY FAILURE	- OFF
-		B	MAINS FAILURE	B BLINKING
+		+	DEFECT	

The mcr 0204 control unit is a maintenance-free device. It requires uninterrupted 230 V mains power supply. Should there be power outage caused by mains failure, the installed batteries will ensure 72-hour emergency power supply. **Any power outage exceeding 72 hours can result in permanent damage to the batteries.**

4.2 Ventilation of the building

For smoke vents equipped with electrical actuators and the system with ventilation push-buttons, it is possible to open smoke vents for ventilation of the building under normal usage conditions. When you press and hold the push-button (\uparrow or \downarrow) for at least 1 second, the vent will open or close, respectively.

Pressing the ↓ button will always cause the smoke exhaust vent to close completely, while the opening time for the ↑ button depends upon the position of the SW1 switch in the unit module (Fig. 2, item 2):

NOTE!!

The ventilation function is inactive when an alarm is on or if there's mains power outage!

4.3 Automatic weather monitoring

If the system is equipped with wind and/or rain sensor and weather monitoring unit, the sensor will block the opening of smoke exhaust vents for ventilation in adverse weather conditions. The wind/rain sensor will automatically close smoke vents (or prevent the vents from being opened by the ventilation push-button) if the wind or atmospheric precipitation is too strong.

Note!

1. *In the case of an ALARM signal, smoke vents will open regardless of weather conditions!*
2. *Do not use emergency pushbutton for ventilation under normal usage conditions!*

4.4 Emergency alarm

If the status of the unit is 'alarm', the red ALARM diode on the front panel will light up.

Alarm release methods:

Manual - break the glass of the emergency pushbutton and press the button

Automatic – depending on the type of sensors, the sensors will be automatically activated when the temperature rises or in smoke conditions.

4.5 Deleting the alarm

To delete the alarm status, determine the source of the alarm first. Then remove its cause and reset the alarm:

Alarm indicated by the pushbutton (the RPO line) - open emergency pushbutton housing, unlock the button using the lever and delete the alarm using RESET button inside the housing. The red ALARM diode will go out. The glass also needs to be replaced.

Alarm indicated by a smoke sensor (the sensors line) - delete the alarm using the RESET button, either in the RPO emergency pushbutton housing or in the control unit. The sensor will not activate the alarm again if there's no longer excessive smoke/temperature. The red ALARM diode will go out.

If the cause of the alarm can't be removed (for example, when there's an alarm source failure), disconnect the line corresponding to a particular alarm source. Delete the alarm using the RESET button. The red ALARM diode will go out. **The FAULT diode will light up.**

In this case CALL THE SERVICE!

4.6 Closing the vents after alarm release

To close the smoke exhaust vents, delete the alarm first. When you delete the alarm by using RESET button placed in mcr RPO-1 emergency pushbutton casing, the vents will be closed automatically.

If the alarm was deleted using control unit, press and hold (for at least 1 second) the ↓ ventilation button or the RESET button in mcr RPO-1.

4.7 Diagnosing defects

Visual signal (Fig. 1) on the unit's front panel informs about a system defect. The signal is repeated in mcr RPO-1 emergency pushbutton.

When only the FAIL diode is on, the batteries have failed. In this case you should check battery connections and the condition of FS1 fuse (see page 6).

When the FAIL diode blinks, this means that there is no mains power supply. In this case you should check the status of FS2 fuse (see page 6) and the 230 V voltage is present on the unit's terminals.

The default factory settings for the battery voltage control potentiometer must not be changed!

In case of a system defect CALL THE SERVICE!

5. ASSEMBLY AND START UP

1. Mount the unit near the devices which are meant to be controlled by the unit, using appropriate metal connectors selected in accordance with the substrate material. Note: do not drill through the unit's housing — in the case of damage to electronic components caused by dust/debris, any complaint will be disregarded.

2. **Sensors line** - 2 leads (YnTKSY) from P5 terminals.

End resistor 10 k Ω in the base of the last sensor.

The maximum number of sensors in accordance with the technical parameters.

3. **Emergency pushbuttons line (RPO)** - 7 conductors from P6, P7 and P14 terminals.

End resistor 10 k Ω in the last pushbutton.

The maximum number of pushbuttons in accordance with the technical parameters.

4. **Actuators line** - 2 leads (feature PH30, for example HLGs), from P2 terminals. The end terminal in the last assembly box. The maximum number of actuators in accordance with the technical parameters.

5. **Ventilation** - pushbuttons for ventilation (manual vent control, upwards, downwards) – 3 leads (YTKSY or YDY) from P3 terminals. It is possible to connect several push-buttons in parallel.

It is possible to combine units into ventilation sections. To do this, connect in parallel the ventilation terminals P3 in all units of the section: G-top, D-bottom, ground-joint. Connect the automatic weather control unit to any single unit within the section, to P4 terminals.

If the automatic weather control unit is to be connected unit to more than one ventilation section, then we connect individual units in parallel.

Important! - you have to connect left P4 terminals on the left to one line, and the ones on the right to the other line - do not cross!

6. **Automatic weather monitoring unit** for closing the vents in the case of a strong wind/ heavy rain - 2 leads (YTKSY or YDY) from P4 terminals.

7. **Auxiliary voltage** - P7 terminal. The auxiliary voltage output P7 is short-circuit resistant and may carry a load of maximum two relays.

8. **No-voltage output NC (or NO) for information about alarm** – 2 leads (YnTKSY) from P9 terminals. The jumper H1 allows to select NC output (default) or NO output.

9. **No-voltage output NC (or NO) for information about defect** – 2 leads (YnTKSY) from P8 terminals. The jumper H2 allows to select NC output (default) or NO output.

10. **Main supply 230 V, 50 Hz** should be connected to the terminal strip P1 on the unit module's PCB. The power supply for the unit should be separate (units only on the mains line), properly protected by means of an overload circuit breaker in the switching station.

Do not protect the line by means of a GFCI (RCCB) circuit breaker.

11. **24 V power supply from batteries** (P10, P11). The batteries should be connected in series, taking polarity into account.

12. **Start-up.** Before switching on the power supply, check if the leads are connected properly.

Note: the leads should be placed and connected in accordance with relevant standards and basic rules for wiring.

In a correctly operating unit the POWER diode indicator is on.

In order to check the operation of ventilation, the weather monitoring unit should be disconnected. The weather monitoring unit blocks ventilation for several minutes after the wind has ceased, and in the case of rain the sensor needs to get dry, which takes even more time.

Note: in order to connect the unit you should use leads which satisfy the requirements of current regulations.

6. INSTRUCTION MANUAL FOR CHECKING CONNECTION AND PERFORMANCE OF THE MCR 0204 CONTROL UNIT

For reasons of operational safety and reliability of the fire protection system, after installing the control panel, check the device by following instructions.

1. Check the correctness and reliability of connection of all cables (main power, input and output lines, line continuity resistors) in accordance with Operation Manual and the installation design.
2. Check the value of the power supply voltage of the control unit - it should be $230\text{ V}^{+10\%}_{-15\%}$, 50 Hz.
3. Perform the control panel start-up in accordance with the Operation Manual (chapter 5).
4. Check whether the control panel remains in the normal operating state (chapter 4.1).
5. After min. 12 hours of charging the batteries, check the voltage at the battery terminals. The measurement must be carried out in the normal operating state (chapter 4.1). The voltage at the battery terminals should be in the range of $26.5 \div 28\text{ V} =$.
6. Check the correctness of fault detection by the control unit (paragraph 4.7): damage to the detector line (e.g. take out the last detector from the socket), damage to the RPO button line (e.g. to open the RPO line, P6 terminal), damage to the actuator lines (e.g. open the actuators line, the control panel in mode smoke exhaust), power supply damage (e.g. 230 V disconnect), battery detection (e.g. disconnect the batteries). Tests should be performed in a normal operating state for any potential damage. In each test case, the fault condition should be detected and signalled on the front panel of the control unit, on the service panel for selected faults, by means of the mcr RPO-1 emergency pushbutton (if connected) and on the fault indication output (by ohmmeter control).
7. Check whether the control panel is correctly detecting alarms. Check all connected alarm sources:
 - a) alarm from the RPO line (press the mcr RPO-1 emergency pushbutton),
 - b) alarm from the detector line (activate the detector),
 - c) alarm from the external alarm line (activate external device or open the line).Tests should be performed in the normal operating state independently for each connected alarm source. In any case, the alarm condition should be detected and signaled by the control unit (chapter 4.4) on the front panel, on the service panel with the diode of the proper alarm source, with the diode of the mcr RPO-1 (if connected) and on the alarm signal output (ohmmeter control), and all connected fire devices controlled by the control panel should be controlled.
8. If applicable, check that the daily ventilating function (chapter 5, item 5).
9. Check whether the control unit remains in the normal operating state after all tests have been performed (chapter 4.1).
10. The control panel can be put into operation if all tests have been completed correctly. Only an efficient and properly connected control unit can work in fire protection systems. In the event that at least one result of the above tests is not correct, the control panel cannot be used in security systems and should be restored for proper operation.

After checking the above points, make a record in all fields of the table below.

Date of control	Result: Working/not working	Name and surname	Name of enterprise:	"MERCOR" S.A's authorization no:

8. SERVICE AND MAINTENANCE

The technical condition of fire protection devices installed in the facility is of key importance to ensure the safety of users of this facility. The guarantee of reliable operation of the devices can only be obtained by providing regular and professional service care.

"MERCOR" S.A. they should be subjected to periodical technical inspections and maintenance operations every six 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 having valid authorization for the service of devices "MERCOR" S.A. The service carried out in accordance with the above recommendations is one of the basic conditions of preservation of rights arising from the guarantee and the obligation of the users / owners or managers of the resulting facilities from the law.

The obligation to carry out service inspections of fire-fighting equipment results from the provisions of the Ordinance of the Minister of Interior and Administration of June 7, 2010 on fire protection of buildings, other construction objects and areas (Journal of Laws of 2010 No. 109, item 719).

In order to be able to perform activities included in the scope of service inspections, as well as service and warranty activities such as visual inspection or repair, it is necessary to provide physical access to the devices.

It is recommended to perform those check-ups in between of inspections:

1. Checking the status of signaling of control diodes.
2. Checking the condition of electrical connections paying special attention to looseness and mechanical damage.

In matters related to technical inspections, maintenance and repairs of devices, you can contact representatives of "MERCOR" S.A., tel. 58/341 42 45 during operating hours 8 - 16 (Mon-Fri), e-mail: serwis@mercor.com.pl.

9. WARRANTY TERMS AND CONDITIONS

1. "MERCOR" S.A. 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" S.A. shall remove them within 21 days of the written notification, subject to paragraph 6.
3. "MERCOR" S.A. 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;
 - equipment damages resulting from causes other than those that "MERCOR" S.A. 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" S.A. 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" S.A. 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" S.A.,
 - Maintenance or periodic servicing are not done in due time or are performed by unauthorized persons or a service center not authorized by "MERCOR" S.A., 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" S.A. 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.

10. TECHNICAL SPECIFICATIONS

Item	Value
Central type	conventional
Power supply voltage - basic	230 V (-15%, +10%) 50 Hz
Rated power	100 VA
Output voltage (power supply for actuators)	24 V=, max. 4 A
Stand-by power supply	2 batteries HP2-12 (12 V, 2 Ah) or similar connected in series max. 2,3 Ah
Charging voltage for set of batteries	27.5 V \pm 0.2 V at 20°C
Working temperature range	-5°C ÷ 40°C
Maximum number of sensors in line:	15 pcs.*
Maximum number of push-buttons of type: mcr RPO-1 ROP	4 pcs. 10 pcs.
Maximum number of actuators – depending upon consumed current, for example for the type: MCRL KT10x & MCRL KR10x or KT10x & KR10x	4 psc.
MCRW 08x or G08x or SG08x or S08x	5 psc.
MCRW 10x or G10x or SG10x or S10x	4 psc.
MCRW 13x or G13x or SG13x	3 psc.
MCRW 16x or G16x or SG16x	2 psc.
MCRW 20x or G20x or SG20x	2 psc.
MCRW 26x or G26x or SG26x	1 psc.
MCRW 40x or G40x or SG40x	1 psc.
x - any letter of the alphabet Other types depending upon consumed current (max. 4 A)	
Rated wire size	2.5 mm ² **
Operation time without mains voltage, in READY mode	minimum 72 hours***
Load for relay outputs	max. 100 mA, 24 V
Environmental class acc. to KOT	I
Environmental class acc. to EN 12101-10	I
Functionality class	A
Protection level for housing	IP 54
Insulation grade	II
Dimensions (H x W x D)	230 x 300 x 86 mm

* In standby mode, the current consumption of 1 sensor cannot exceed 80 μ A!

** Larger diameters are permissible for the actuators line, provided that the cable ends with pin with the diameter of that pin up to 2.5 mm².

*** After this time the unit may open actuators once and indicate alarm for 30 minutes.

11. DECLARATION OF PERFORMANCE



Declaration of Performance

Declaration no.: DWU 088/HO/2018

1. Unique identification code of the product-type: Control panel for smoke exhaust and ventilation type mcr 0204
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
Name and contact address of the production plant: „MERCOR” S.A., ul. Grzegorza z Sanoka 2, 80-408 Gdańsk, Polska
GAL – Stanisław Chamski, ul. Polna 11, 80-209 Tuchom, Polska
4. Name and contact address of the authorised representative: -
5. 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
<i>Operational reliability</i>		
Functions	6	Pass; $I_{max} = 2 A$, $I_{max} = 4 A$
Material, design and manufacture	7	Pass; IP 54, Environmental class I
<i>Operating parameters in fire conditions</i>		
General provisions	4.1	Pass; Functional class A
Power supply source – general provisions	5.2.1	Not applicable
<i>Response time</i>		
General provisions	4.1	Pass
Power supply source – general provisions	5.2.1	Not applicable
Power supply from reserve source (battery)	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:

Jarosław Rompca
Director of Smoke and Heat Exhaust Department
(first and last name, function)

(Signature)

Gdańsk, 07.03.2018
(Place and date of issue)

KRS 0000217728, Sąd Rejonowy Gdańsk-Północ w Gdańsku, VII Wydział Gospodarczy Krajowego Rejestru Sądowego
KRS 0000217729, Local Court Gdańsk-Północ in Gdańsk, VII Commercial Division of National Court Register
Wysokość kapitału zakładowego (i wpłaconego) / Company capital (paid up): 3.914.633,75 zł
NIP: 662-030-33-14, KOD FIO: PL 662010314, Numer identyfikacji podatkowej: 666047431



12. THE CERTIFICATE OF CONSTANCY OF PERFORMANCE



JEDNOSTKA NOTYFIKOWANA / NOTIFIED BODY 1438

Centrum Naukowo-Badawcze Ochrony Przeciwpożarowej

im. Józefa Tuliszowskiego

Państwowy Instytut Badawczy

ul. Nadwiślańska 213, 05-420 Józefów

Polska / Poland



CERTYFIKAT STAŁOŚCI WŁAŚCIWOŚCI UŻYTKOWYCH CERTIFICATE OF CONSTANCY OF PERFORMANCE

1438-CPR-0583

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

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:

Zasilacz do systemów kontroli rozprzestrzeniania dymu i ciepła – centrala sterowania oddymieniem i wentylacją typu mcr 0204
<Opis wyrobu, zamierzone zastosowanie, właściwości użytkowe patrz kolejne strony certyfikatu>
wprowadzanego do obrotu pod nazwą handlową lub znakiem firmowym producenta:

Power supply for smoke and heat control systems – control panel for smoke exhaust and ventilation type mcr 0204
<Product description, intended use, performances see the following pages of the certificate>
placed on the market under the name or trade mark of:

**„MERCOR” S.A.
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 stałości właściwości użytkowych określone w załącznikach ZA norm:

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annexes ZA of the standards:

**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 wdrożył zakładową kontrolę produkcji, która jest oceniana w celu zapewnienia stałości właściwości użytkowych wyrobu budowlanego.

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.

Niniejszy certyfikat został wydany po raz pierwszy w dniu **20.02.2018** i pozostaje ważny, zgodnie z umową nr **10/DC/CPR/2018**, do dnia **19.02.2028** dopóki nie zmienią się normy zharmonizowane, 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 certyfikującą wyrób.

This certificate was first issued on **20.02.2018** and will remain valid, in accordance with the agreement no **10/DC/CPR/2018**, until **19.02.2028** as long as neither the harmonised standard, the construction 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: **1**
Certificate issue no:
Data wydania: **20.02.2018**
Issue date:



**DYREKTOR CNBOP-PIB
DIRECTOR of CNBOP-PIB**

bryg_dr hab inż. Dariusz Wróblewski

DC/CPR-13/12.09.2016

Strona / Page 1 / 4