

Open Only CO²

Technical File
NF004 F



NF - Control devices
for Fire Safety Systems
www.marque-nf.com



COS10 - COS20 - COS30

Description - General information

MCS/SCP control panel with pneumatic evacuation for single use PSC
Smoke exhaust control box with metal casing in red.
Manually controlled pin hammer
Clip-on mounting possible (no tools needed) of an electric or pneumatic DCM.
The casing can be dismantled (screw 1/4 turn) to facilitate installation.
On the front, a plastic ejection flap gives access to the pin hammer (depending on the model).
Locked with a safety key.
Space with brackets to fix spare cartridges.
Pipe exit cover.
Delivered with plastic seal.

Pipe exit cover with pre cut-out



Casing can be dismantled



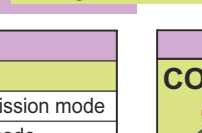
Boss on rear



Clip-on module



Casing lock



Product delivered with markings translated

Product identification

Information on label (from top to bottom)

- Manufacturer's name
- Manufacturer's number
- Module possible
- Certification body
- Article code
- Lot number
- Output pressure (in use)

Output pressure (in use) : 3 to 20 bar

Electric DCMs

Ref.	Type
MOD24E (M1)	24Vcc - 3.5W - Transmission mode
MOD24R (M2)	24Vcc - 1.8W - Break mode
MOD48E (M3)	48Vcc - 3.5W - Transmission mode
MOD48R (M4)	48Vcc - 1.8W - Break mode

Pneumatic DCM

Ref.	Type
MODP (M5)	Pressure: 6 to 20 bar

Maximum grammage

COS10	COS20	COS30
100g	150g	500g



Cartridges must be screwed in place manually.

Dimensions

Between fixings		COS10		COS20		COS30	
W	H	120	380	120	440	175	530
D		110		110		110	

NF - Control devices for F.S.S.
This mark certifies :
- conformity to the norm NF S 61-938 for S.C.P.s
- the values of the characteristics given in this technical file.
Certification Body
AFNOR Certification - 11 Rue F. de Pressensé
93571 LA PLAINE SAINT DENIS CEDEX

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COS10 - COS20 - COS30

REMINDER :

Height of installation: § 9.1 of the NFS 61-932

The safety device to be used should be fitted at a height of between 0.90m and 1.30m from the ground.

Pipes and connections: § 7.2 of the NFS61-932

Pipes should be made entirely of copper or stainless steel. Connections should be airtight, metal against metal.

Pneumatic piping should run through the interior of the building, to avoid the risk of freezing.

Performance and testing: § 6.4 of the NFS61-932

The calculation to define the capacity required should be based on the characteristics of the components of the system to be fed and should take into account the characteristics of the circuit.

The pressure should be checked using a specialised tool (for example a pressure gauge) in order to make sure that the pressure present in the circuit corresponds to this calculation. In addition, this tool will check the airtightness of the circuit.

Installation

Lift off the casing.

Check that the wall or hanging surface is completely flat, in order to ensure that the box is fitted correctly.

Fix the back of the box to the wall or hanging surface.

Connect the box to the copper circuit.

Put the pipe into the joint, tighten manually and then with a spanner, until it is secure. (1.5 turns maximum)

Testing

Lift up the pin hammer lever.

Screw the CO² cartridges in place MANUALLY.

Carry out the manual or distance controlled triggering action (if DCM is installed) for opening.

Proceed to the resetting of the box. (See opposite)

Installation (continued)

Use the pre cut-out on the cover to pass through the pipe.

Place the pipe cover on the casing.

Attach the casing to the back and screw on the clips with a 1/4 turn.

Insert the cartridges into the box. (for use and a spare).

Close the door.

Fix the seal in place.

Connection of DCMs

See corresponding technical files

SMOKE EXHAUST Use

In the case of a fire, push open the ejection flap and pull down the pin hammer lever.

Maintenance

THE PRODUCT, every 6 months.

Check that everything is in good working order.

Check the condition of the pins.

INSTALLATION, see according to norm NFS61-933

Resetting

DCM

Make sure that the DCM command is switched off:

If modules M1 to M4 are in place :

Electric DCM line :

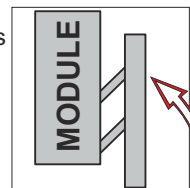
Power on in Break mode

Power off in Transmission mode

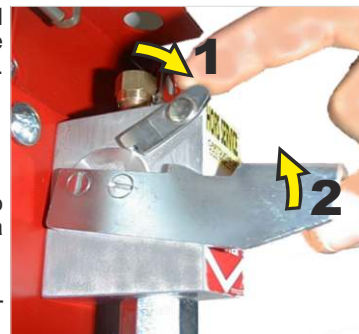
if module M5 is in place :

pneumatic DCM line **pressure off.**

Reset the DCM by raising the front cover up and pushing it back into place.



Push back the small blocking bar (1) and raise the lever (2) up to the top. (See opposite)



Insert new cartridges into the box. (for use and a spare).

Put the ejection cover back in place.

Close the door and secure with a new seal.

Easy installation, useful material

To carry out the installation of this product, you will need the following

Pressure control kit	KIP01
Copper piping	TCB506
Copper reel	TCC2506
Straight joint	RAU2621
T joint	RAU2623
Elbow joint	RAU2622
Steel piping	TAT2508
Metal trunking	GM201
CO ² Cartridge	CARDE50.....
DCM	MOD...
Pressure indicator box	BIP01



BIP01
with pressure gauge
for Open Only box.

Technical Characteristics

Material	:Steel, brass, aluminium, PVC.
Protection	:Zinc coating: RAL3000
Safety measures	:To be handled with the fingers.
Force to be applied	:< 5 daN.
Protection index	:IP42.
Energy	:Co ² or inert gas.
DCM exit	:Olive screw connection
Temperature during use	:+ 5°C to + 50°C
Pressure	:operating = 3 to 20 bar
	:in use = 60 bar
	:during testing = 90 bar.
CO ² cartridge pitch	:15 x 125
DCM connection	: - electric (see : file NF012)
	Running factor : 100 % at a temperature of 20°C ± 5°C
	Voltage (Un) : 24 or 48 volts continuous current SELV
	Consumption at nominal voltage (Un) :3,5 W (24 or 48 volt c.c. transmission)
	1,8 W (24 or 48 volt c.c. break)
	- pneumatic (see: file NF013)
	Consumption : 0,01 normo-litre.
	Pressure of DCM: Minimum = 6 bar - Maximum = 20 bar.
Precautions	:Stock and install away from bad weather conditions.

