









# CU2 +ATEX

**Explosion protected fire damper** 

## PRODUCT PRESENTATION

The rectangular fire damper CU2 with option Atex is an explosion protected fire damper for use in EEx-areas zone 1,2 (gas) and zone 21,22 (dust). The option is available on all dimensions of the CU2.

- 1. Explosion proofed operating mechanism
- 2. Equipotential connection

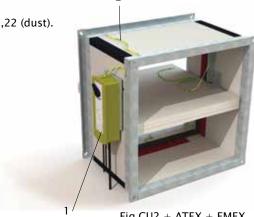


Fig.CU2 + ATEX + EMEX

# **OPERATION MECHANISMS**

EMEX(T) - RMEX(T)

## Rearmation

#### · Manual rearmation:

- 1. Use delivered socket wrench
- 2. Slow motion
- 3. Enough torque/force is required

# Caution!

(i) Manual override only if supply voltage is cut!

#### · Motorized rearmation:

- 1. Supply the actuator (respect the prescribed voltage) for at least 60 sec.
- 2. The rearmation stops automatically

# Unlocking:

# · Remote controlled unlocking:

By interrupting the power supply

# · Automatic unlocking:

As soon as the temperature exceeds 72°C outside or inside the damper (Types EMEXT/RMEXT)

### · Selection of running time:

Put switch (S) into the correct/selected position in accordance to the table below.

The selected parameter will work at next operation of the actuator. Adjustment can be done even without supply voltage.

Running times	Position of S
3 sec./90°	00
15 sec./90°	01
30 sec./90°	02
60 sec./90°	03
120 sec./90°	04

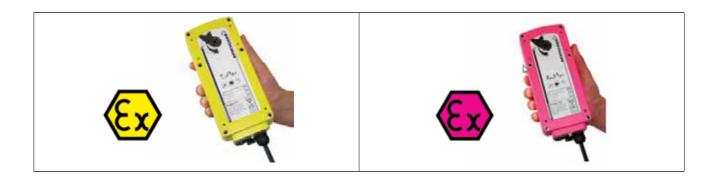
Switch - Push button - Lamp for adjustment, behind the blancking plug 10-position switch (S) 3-colour LED

# Caution!

- (i) If supply voltage is available, turn switch only if actuator is not running!
- · Selection of running time spring return:

The running time of 3 or 10 sec. spring return is selected by wiring (see p. 3).





# **APPROVALS AND TEST REPORTS**

All our dampers are submitted to a number of tests by official test institutes. Reports of these tests form the basis for the approvals of our dampers.



ATEX: TÜV 14 ATEX 7540 X

# **E**LECTRICAL CONNECTION

RMEX/EMEX		RMEXT/EMEXT			
24 to 230 VAC/DC  PE    Deliver   De	Integral aux. switches potential free contacts switching at 5° and 85° Angle of rotation max. 24W3A, 230W0,25A	24240 VAC/DC  PE  a b  1 2 3 4 5  Localer Standard wiring - spring return in -10 s Additional wiring bernminal 5 = spring ret	Integrated aux switches mux. 24 V/3A, 240 V/0,25A, min. 5 V/10 mA, switching at 5° and 45°. Supply at aux, switches must be the same like supply of the actuator.   < 5° > 85°  66 7 8 9 10 1  17  ec. min – 3 sec.	Exi-circuit for passive - potential free push button on sile and safety temperatur sensor (type ExPre-TT accessories)  ExPre-TTeC	
Power Supply					
24230 VAC/DC		24230 VAC/DC			
Power consumption					
Max.20 W		Max.20 W			
	Position s	witches			
max. 24V/3A, 230V/0,25A		max. 24V/3A, 230V/0,25A			
	Running	g time			
Motor : 3/15/30/60/120s Spring : 3 or 10 s		Motor: 3/15/30/60/1209 Spring: 3 or 10 s	5		
	Degree of p	protection			
IP 66		IP 66			



CU2 RMEX(T) Remote controlled damper with electrical, explosion proof rotary actuator (for zone 2/22)  See installation manual of CU2 (NT-C2)  SL (dm²) = [ (W <sub>nom</sub> -36) x (H <sub>nom</sub> - 36) - 45 (W <sub>nom</sub> - 36) ] 10 000  In floor/ wall	CU2 EMEX(T) Remote controlled damper with electrical, explosion proof rotary actuator (for zone 1/2/21/22)  See installation manual of CU2 (NT-C2)  SL (dm²) = [ (W <sub>nom</sub> -36) x (H <sub>nom</sub> - 36) - 45 (W <sub>nom</sub> - 36) ] 10 000
SL (dm <sup>2</sup> ) = [ (W <sub>nom</sub> -36) x (H <sub>nom</sub> - 36) - 45 (W <sub>nom</sub> - 36) ] 10 000	SL $(dm^2) = [(W_{nom} - 36) \times (H_{nom} - 36) - 45 (W_{nom} - 36)] 10 000$
SL (dm <sup>2</sup> ) = [ (W <sub>nom</sub> -36) x (H <sub>nom</sub> - 36) - 45 (W <sub>nom</sub> - 36) ] 10 000	SL $(dm^2) = [(W_{nom} - 36) \times (H_{nom} - 36) - 45 (W_{nom} - 36)] 10 000$
In floor/ wall	
	In floor/ wall
After 10.000 cycles the characteristics stay within the declared limit values.	After 10.000 cycles the characteristics stay within the declared limit values.
Closed	Closed
Automatically: (only RMEXT- version) by melting of the thermo-electric fuse at 72°C. Remote controlled by interrupting the power supply.	Automatically: (only EMEXT- version) by melting of the thermo-electric fuse at 72°C. Remote controlled by interrupting the power supply.
Manual Remote controlled	Manual Remote controlled
Cold unlocking possible	Cold unlocking possible
Without external energy	Without external energy
Horizontally or vertically	Horizontally or vertically
Both Directions	Both Directions
Random	Random
Max 500 Pa	Max 500 Pa
For interior use	For interior use
24230 VAC/DC	24230 VAC/DC
2 integral, potential free aux. switches, 2 x EPE	2 integral, potential free aux. switches, 2 x EPE
IP66	IP66
Maintenance-free	Maintenance-free
Ambient temperature: $-10^{\circ}\text{C} \le \text{Ta} \le 40^{\circ}\text{C}$ II2G IIC T6 II2D T80°C	Ambient temperature: $-10^{\circ}C \le Ta \le 40^{\circ}C$ II3G IIC T6 II3D T80°C
Ambient temperature: $-10^{\circ}C \le Ta \le 50^{\circ}C$	Ambient temperature: $-10^{\circ}C \le Ta \le 50^{\circ}C$ II3G IIC T5 II3D T95 $^{\circ}C$
	Within the declared limit values.  Closed  Automatically: (only RMEXT- version) by melting of the thermo-electric fuse at 72°C. Remote controlled by interrupting the power supply.  Manual Remote controlled  Cold unlocking possible  Without external energy  Horizontally or vertically  Both Directions  Random  Max 500 Pa  For interior use  24230 VAC/DC  2 integral, potential free aux. switches, 2 x EPE  IP66  Maintenance-free  Ambient temperature: -10°C ≤ Ta ≤ 40°C II2G IIC T6 II2D T80°C  Ambient temperature: -10°C ≤ Ta ≤ 50°C II2G IIC T5

If the damper is manipulated in any other way than described in this manual, Rf-Technologies will decline any responsibility and the guarantee will immediately expire.