

## REMOTE CONTROL UNIT

# AIRCHOC<sup>®</sup> (((•))) wireless



Produced on: December 6th, 2012

By: DESIGN OFFICE

Checked on:

By: BOISLEUX.M

Signature:

HEAD OFFICE- Standard Industrie : 139-141 rue du Luxembourg-BP50207 59054  
ROUBAIX CEDEX 1- FRANCE

☎ +33 (0)3 20 28 32 32 / @ : info@standard-industrie.com

## CONTENTS

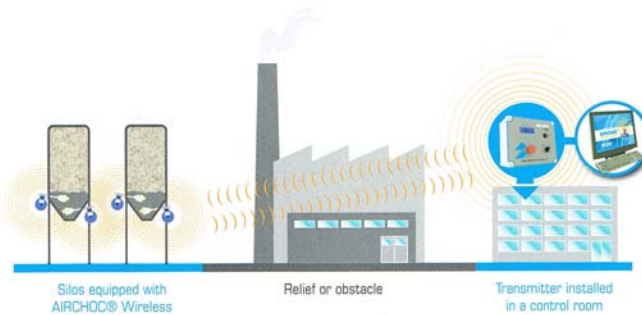
1	Principle of Airchoc Wireless	page 4
2	Principle of remote control	page 4
3	Remote Control Unit Presentation	page 4
3-1	General Characteristics	page 4
4	Installing the Battery and Starting-up	page 5
5	Principle	page 6
6	Remote Control Unit Indications on Start-up	page 6
7	Menu Operation	page 6
8	Manual Airchoc Firing	page 7
9	Airchoc Consultation	page 8
10	Airchoc Isolation	page 8
11	Access Code	page 9
12	Language Selection	page 9
13	Signal Level	page 9
14	General Information	page 10
14-1	Instructions	page 10
14-2	Remote Control Unit Auto Shut-off	page 10
14-3	Additional Information	page 10
14-4	Using the Battery	page 10
14-5	Recycling the Battery and the Remote Control Unit	page 10
14-6	Hazard Area	page 10
14-7	Warranty	page 10
14-8	After Sales Service	page 10

## 1- Principle of Airchoc Wireless

### AIRCHOC® wireless AN INNOVATIVE WIRELESS DESIGN

Standard Industrie has used the experience gained from over 30 years in the field of solving blockages and its ability for constant innovation to create the **AIRCHOC® Wireless, THE FIRST WIRELESS AIR CANNON.** Designed to easily remove blocking and encrustation while avoiding the limitations imposed by a wired installation, the **AIRCHOC® Wireless can be operated remotely using a transmitter and a receiver box mounted on the 6V-5W pilot light.**

This innovative design reduces wiring costs and makes it easier to maintain the AIRCHOC® while retaining the **safety, effectiveness and reliability** that the AIRCHOC® range is known for.



### LONG DISTANCE TRANSMISSION

With a **300 meter-range (984 feet) -up to 1km (0,62mi) in open spaces-**, the wireless system enables you to operate the AIRCHOC® Wireless over large distances across any terrain and regardless of any obstacles.

### UP TO 128 AIRCHOC® wireless UNITS WITH A SINGLE TRANSMITTER

Installed in your control room, the transmitter can be **connected to your automaton or to a computer** in order to manage **all your AIRCHOC® Wireless units** from a single point.



## 2- Principle of remote control



### THE AIRCHOC® wireless REMOTE CONTROL

Using this remote control, you can view the condition of each **AIRCHOC® Wireless** in real time and remotely set off blasts in complete safety.



### 3- REMOTE CONTROL UNIT PRESENTATION



#### 3-1. General Characteristics

##### 3-11. Electrical Characteristics

- Battery supply voltage: 9V dc, type 6LF22 or 6LR61, included,
  - Standard Industrie reference: **CSMELE9V**
- Attention, use only alkaline in remote control.



##### 3-12 Explanation of the symbol on the label :

— — — — — Direct current

	TRANSMITTER REMOTE CONTROL	
	MODEL : TELACWCA	
DC INPUT —	VOLTAGE	RF FREQUENCY
	7.2Vdc - 9Vdc	915 MHz
FCC ID: A29-TELACWCA		IC: 10022A-TELACWCA

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

##### 3-13. Environmental characteristics:

- Service temperature:	Minimum: -10°C Maximum: +70°C
- Humidity :	no more than 80%
- Max altitude	e.g up to 2000 m
- Pollution degree	3

**Attention :** it is forbidden to clean the remote control to the high-pressure water.

The protection is impaired if equipment is used in a manner not specified by the manufacturer.

##### 3-14. Additional Exterior Characteristics

- Operator interface:	- 2-line 16-character LCD display with low back lighting - 3-key keyboard - Indicator LED: Green, system (system operational) Red, fault (fault detected)
-----------------------	---

## **4- INSTALLING THE BATTERY AND STARTING-UP**



Remove the battery compartment cover by lightly pressing with the end of your finger.



Connect the 9V battery to the connector respecting the polarity.



Place the battery in its compartment



To close the battery compartment cover – follow the slides – lightly press the cover into place with the end of your finger



Press the **On / Off** button for at least 3 s to start



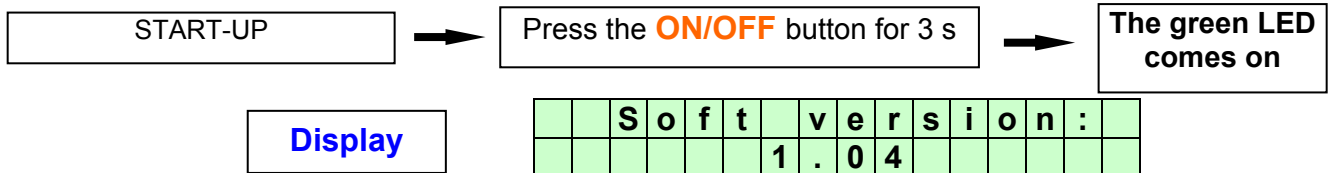
# WIRELESS REMOTE CONTROL UNIT

## 5-PRINCIPLE:

The wireless remote control unit communicates with receiver units on the Airchocs through the wireless cabinet. Upon start-up, the remote control unit establishes communications with the cabinet before becoming functional. If the connection with the cabinet cannot be established, a communications fault has occurred and the unit cannot function.

## 6- REMOTE CONTROL UNIT INDICATIONS ON START-UP

**!** Ensure you are within range of the antenna or router if there is one.



When the remote control unit powers up, the display indicates the software version.

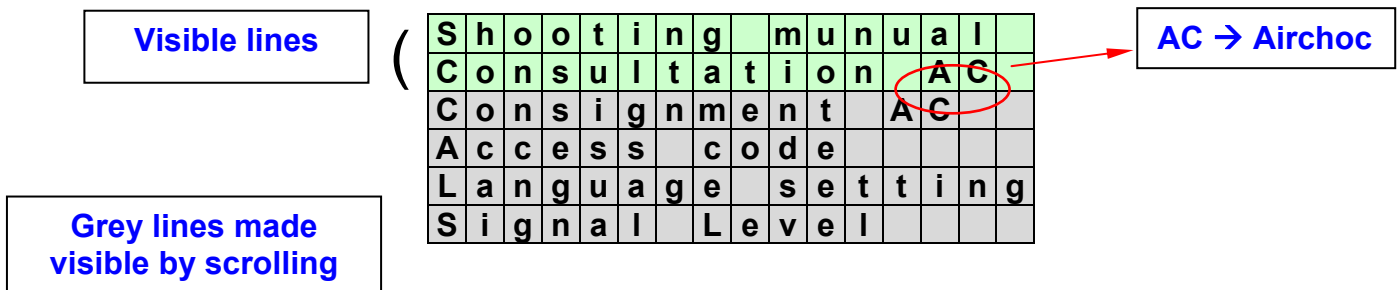
Functions may be accessed using the ▲/▼ keys and the ENTER key.

Generally:

- The ▲ ▼ keys are used for selecting a line or moving left and right
- The ENTER- ON/OFF key is used for:
  - validating data input (short press <1 s)
  - start-up / shut-off (press > 3 s)

**!** At any time by pressing ▲ and ENTER you will be returned to the menu

## 7- MENU OPERATION



The various menus accessible with an access code are in orange (see page 8)

- **Manual firing:** this menu is used to fire a previously selected Airchoc.
- **AC consultation:** this menu is used to check whether the Airchocs are active or inactive.
- **AC isolation:** this menu is used to activate or deactivate Airchocs for safety during maintenance.
- **Access code:** this menu is used to record and modify the access code.
- **Language selection:** this menu is used to select the display language. **English by default**
- **Signal level:** this menu is used to verify the communications level, expressed as a % from your location with the remote control to the cabinet antenna module. If you have placed routers, you may do the same to verify communications between your location with the remote control and a router in range. This is for informational purposes only and may vary subject to disturbances.



## 8- MANUAL AIRCHOC FIRING

### MENU ACCESSED BY ACCESS CODE

After entering the access code, the remote control unit connects to the cabinet (to view the accessible Airchocs).

If communications are not good, the display will remain locked on:

				S	e	a	r	c	h				
				A	i	r	c	h	o	c			

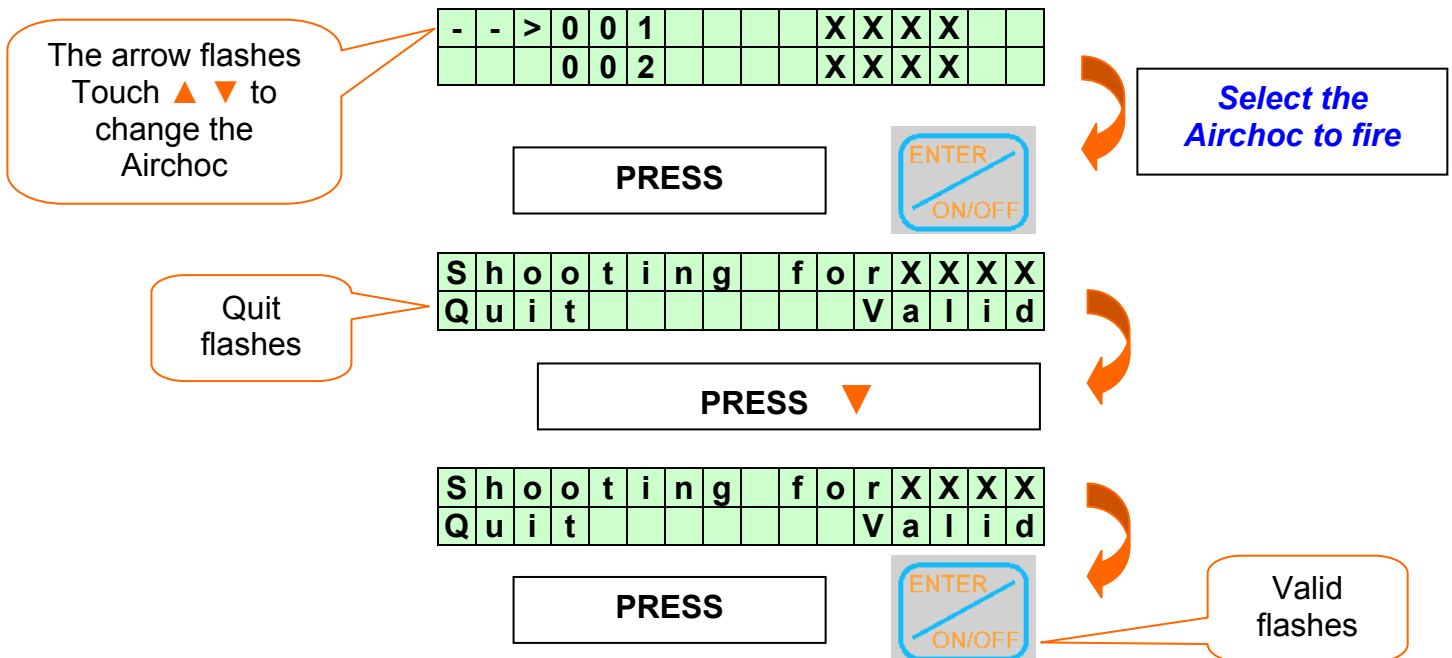


After about 20 seconds, if no connection is established, you will:

				F	a	u	l	t		c	o	m	m	
				E	x	i	t							

### CONNECTION ESTABLISHED WITH THE CABINET

When the connection is established, the display indicates the Airchocs registered with the cabinet:



If the fire order is given, the display changes to:

S	h	o	o	t	i	n	g		f	o	r	X	X	X	X
				I	n		p	r	o	g	r	e	s	s	
S	h	o	o	t	i	n	g		f	o	r	X	X	X	X
				S	u	c	c	e	s	s	f	u	l		

If, in the next 10 seconds, firing is not performed communication between the remote control and the cabinet reception is not good. The red LED comes on and the display indicates the corresponding fault:



S	h	o	o	t	i	n	g		f	o	r	X	X	X	X		
				F	a	u	l	t		c	o	m	m				
				F	a	u	l	t		b	a	t					
				F	a	u	l	t		s	o	l	e	n	o	i	d

OR

OR

## 9- Airchoc Consultation

MENU ACCESSED WITHOUT AN ACCESS CODE

This menu is used to check Airchoc faults.

Arrow  
flashes

-	-	>	0	0	1			X	X	X	X		
			0	0	2			X	X	X	X		

Select the  
Airchoc to view  
with ▲ ▼

PRESS

**DISPLAY**

X	X	X	X	:				A	c	t	i	v	e		
								O	K						
f	a	u	l	t	C	o	m	m	N	b	:	0	1		
f	a	u	l	t				B	a	t	t				
f	a	u	l	t				S	o	l	e	n	o	i	d

If there are  
faults, the  
following is

If a fault is present the red LED is lit.

**Warning, if the faults are not acknowledged on the cabinet, every time you view the selected Airchoc you will see the fault and the fault indicator will be lit.**

## 10- Airchoc Isolation

Menu accessed by access code

After entering the password, the remote control unit connects to the cabinet (to view the accessible Airchocs).

**CONNECTION ESTABLISHED WITH THE CABINET**

The AIRCHOC  
flashes Touch ▲ ▼  
to change the Airchoc

A	C	0	1	:					A	c	t	i	v	e		
A	C	0	2	:					I	n	a	c	t	i	v	e

**STATUS OF VARIOUS  
AIRCHOCs**

PRESS

Quit flashes  
Touch ▲ ▼ to  
select

A	C	0	1	-	>				I	n	a	c	t	i	v	e
Q	u	i	t						V	a	l	i	d			

**To make AC01  
Inactive**

PRESS ▼

AC01 flashes

A	C	0	1	-	>				I	n	a	c	t	i	v	e
Q	u	i	t						V	a	l	i	d			

Valid flashes

PRESS

AC01 flashes

A	C	0	1	:					I	n	a	c	t	i	v	e
A	C	0	2	:					I	n	a	c	t	i	v	e

**AIRCHOC AC01 has  
been made inactive**

**Perform the same steps to make the Airchoc Active again and vice-versa.**



## 11- Access code

MENU ACCESSED BY ACCESS CODE, CODE 0000 BY DEFAULT AT DELIVERY

Save a new digital access code:

		A	c	c	e	s	s		c	o	d	e	:	
		N	e	w	:	0	0	0	0					

**0000**  
flashes

**PRESS** ▼ or ▲ to change the values

**PRESS**

**TO GO TO THE NEXT No.**

		A	c	c	e	s	s		c	o	d	e	:	
		N	e	w	:	6	4	3	0					

The last digit  
selected flashes

**VALIDATE THE CODE**

**PRESS**

**!** To access the menu, if the wrong code is entered, the following is displayed:

		W	r	o	n	g		c	o	d	e		

## 12 – Language selection

MENU ACCESSED WITHOUT AN ACCESS CODE

Arrow  
flashes

-	-	>	F	r	a	n	c	a	i	s			
			E	n	g	l	i	s	h				
			E	s	p	a	n	o	l				
			D	e	u	t	s	c	h				
			I	t	a	l	i	a	n	o			

**PRESS** ▲ or ▼ to select the language

**VALIDATE THE CODE**

**PRESS**

## 13 – Signal Level

**PRESS**

		S	i	g	n	a	l		l	e	v	e	l	
		6	4	%									O	K

**AIRCHOC AC01 has  
been made inactive**

		S	i	g	n	a	l		l	e	v	e	l	
		1	6	%			N	o					O	K

**The red  
LED comes**

This menu is used to check the communication level where you are located with the remote control unit and the antenna module or router.

## **14 – General Information**

### **14-1. Instructions**

Changes or modifications not expressly approved by Standard Industrie could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This equipment complies with FCC's radiation exposure limits set forth for an uncontrolled environment under the following conditions :

1. This equipment should be installed and operated such that a minimum separation distance of 20cm is maintained between the radiator (antenna) and user's/nearby person's body at all times.
2. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

### **14-2. Remote Control Unit Auto Shut-off**

This remote control unit automatically shuts-off after 5 minutes of inactivity. This is indicated by the green system LED flashing 30 s before shut-off; simply press any key to keep it on.

### **14-3. Additional Information**

It is not possible to use more than one active remote control unit at a time. If this occurs, the remote control units will be inoperative.

### **14-4. Using the Battery**

Use only 9V 6LF22 or 6LR61 batteries.

Attention, use only alkaline in remote control.

Ensure that the battery is installed in the correct direction on the connector.

Do not dispose of the battery in fire because it may explode.

### **14-5. Battery and Remote Control Unit Recycling**



At the end of the battery or remote control unit service life, you must not dispose of these products with ordinary household waste. They must be disposed of at an electrical and electronic device recycling point. Comply with applicable regulations in your country

### **14-6. Hazard Area**

Certain areas in an industrial environment present potentially explosive atmospheres, it is recommended that the remote control unit be turned off.

**14-7. Warranty**

The warranty does not cover damage caused by external factors such as lightning, water, and fire.

No warranty shall apply if the device was repaired or modified by the purchaser or if its serial number has been modified, removed, or rendered illegible.

Comply with the instructions for use contained in the manual.

**14-8. After Sales Service**

Should the remote control unit fail, contact Standard Industrie on + 33-(0)3-20-28-32-32.