

## Self-Powered handset/headphone with calling system



### GENERAL

These self-powered devices require no power source.

Self-powered handsets with incorporated calling system are in fact complete telephone stations, referred to in our lists as "handset stations".

They are marked off from the simple self-powered handsets by the fact that they include a 1000 to 1500 Hz sound-wheel calling device driven manually by a knurled knob.

Designed to meet severe specifications: Army, Navy, Mines.... they offer a high level of protection against humidity, salt, fog, shock and vibration, fine dust and abrasives such as sand, cement, coal, potassium, phosphates... and are resistant to shock waves caused by nearby shooting.

The characteristics of the plastic materials used to manufacture those devices meet the European

standards concerning the static loads towards explosive atmospheres.

### DESCRIPTION

The reversible self-powered earphone and microphone capsules, of the same type, are housed in two compartments in the body of the handset.

The call generator is mounted behind the microphone capsule. The device is also provided with a connecting cable attached through a cable gland.

A diode limiter located in the base of the call sound wheel prevents the ringing signals from being received by the ear of the user.

The call signal, transmitted by the rotary-knob sound wheel, is received in the microphone of the called set. Due to its very particular modulation, the sound is received and identified perfectly, even in noisy environments.

## USES

Two-way station-to-station links, branch extensions connected to a telephone exchange, in the following applications, among others:

Work sites, mines, underground works, workshops, ships transporting explosive materials, fishing boats, chemical or petrochemical plants, offshore platforms, etc...

## COMPLIANCE

Some of these handsets allow to call and to communicate within dangerous areas.

They are approved to be utilized in atmospheres of Groups IIA to II C (hydrogen) in compliance with European standards CENELEC. They are also certified by Bureau VERITAS to be used on board of ships-classified in its registers.

## MODELS

- Type I: with black fiber loaded rilsan body, lightweight model for inside or protected installations.
- Type II: with vulcanised elastomer body for use in mines, work sites, underground works... where an extreme ruggedness is required.

### Handsets

**G 2100** polyamide body, grey colour

**G 813** rilsan body, black colour

**G 711, G 752, G 852** antistatic elastomer body and suspension loop

### Headphones with headband

**S 7601** with microphone

**S 7602/2, S 7602/1** with microphone and audio-frequency peak limiter

**S 7603/2** with microphone and call generator

### Headphones for headcap

**S 7701** with microphone

**S 7702/2, S 7702/1** with microphone and audio-frequency peak limiter

**S 7703/2** with microphone and and call generator

## OPERATION

### a) Two-way links

Two handset equipments with call generator, interconnected by a two-conductor line, are sufficient to set a two-way link.

### b) Links between several telephone sets in parallel on one line

Several telephone sets can be connected <in parallel> by a two-conductor line.

## HANDSETS

### G 2100

Self-powered device, with polyamide body, grey colour, equipped with two reversible self-powered capsules type A47421. It is suitable for use in not explosive atmosphere.

### G 711

Self-powered device, very heavy, with antistatic elastomer body, black colour, equipped with two reversible self-powered capsules type TA133, provided with filter for thin dust. It is suitable for use in not explosive atmosphere. It is also provided with suspension loop.

### G 752

Similar to G 711 handset, but provided with intrinsically safety barriers and homologated for use in Gassy mine, certified in accordance with CENELEC European Rules (Group I)

### G 813

Self-powered device, extremely light, with rilsan body, black colour, equipped with two reversible self-powered capsules type A47421/0601. It is suitable for use in explosive atmosphere (Group IIC)

### G 852

Similar to G 711 handset, provided with intrinsically safety barriers and homologated for use in explosive atmosphere, certified in accordance with CENELEC European Rules (Group IIC)

## HEADPHONES WITH HEADBAND

**S 7601** with microphone, for use in not explosive atmosphere

**S 7602/2** with microphone and audio-frequency peak limiter, intrinsically safety, for use in explosive atmosphere (Group IIC)

**S 7603/2** with microphone and call generator, intrinsically safety, for use in explosive atmosphere (Group IIC)

**S 7602/1** with microphone and audio-frequency peak limiter, intrinsically safety, for use in explosive atmosphere (Group I)

## HEADPHONES FOR HEADCAP

**S 7701** with microphone, for use in not explosive atmosphere

**S 7702/2** with microphone and audio-frequency peak limiter, intrinsically safety, for use in explosive atmosphere (Group IIC)

**S 7703/2** with microphone and call generator, intrinsically safety, for use in explosive atmosphere (Group IIC)

**S 7702/1** with microphone and audio-frequency peak limiter, intrinsically safety, for use in explosive atmosphere (Group I)

## ACCESSORIES



Characteristics	Not-explosive atmosphere		Gassy mines (iS) GI
Type of body	Plastic	Elastomer	Elastomer
Type	G2100	G711	G752
Code	8311103	8311321	8311421
Weight with cord	600g	1,390kg	1,400kg
Body: <ul style="list-style-type: none"> <li>material</li> <li>color</li> <li>suspension loop</li> </ul>	polyamide black no	neoprene black yes	neoprene black yes
Transducers: <ul style="list-style-type: none"> <li>transmitting</li> <li>receiving</li> </ul>	A47421 A47421	TA133 TA133	TA133 TA133
Call generator: <ul style="list-style-type: none"> <li>type</li> </ul>	G629	G629	G627
Cord: <ul style="list-style-type: none"> <li>color</li> <li>maximum lenght</li> <li>type</li> </ul>	black 3m stretchable	black 1m flexible P.V.C.	blue 1m flexible P.V.C.
Compliance	--	--	CERCHAR 84.7009x



Characteristics	Explosive atmosphere (iS) G IIA to G II C	
Type of body	Plastic	Elastomer
Type	G813	G852
Code	8311203	8311422
Weight with cord	600g	1,400kg
Body:		
• material	rilsan	elastomer
• color	black	black
• suspension loop	no	no
Transducers:		
• transmitting	A47421	TA133
• receiving	A47421	TA133
Call generator:		
• type	G628	G628
Cord:		
• color	black	blue
• maximum lenght	3m	1m
• type	stretchable	flexible P.V.C.
Compliance	--	L.C.I.E. 84.B6139X



	Wall mounting holder	
Version	Anti-roll	With hang-up switch
Tipo	G30	G24
Codice	7315630	7315400
Suitable for handsets	G711 - G752 - G852	
Body: <ul style="list-style-type: none"> <li>material</li> <li>color</li> </ul>	steel black	aluminium case grey



Characteristics	Not-explosive atmosphere		Explosive atmosphere (iS) G IIA to GIIC	
Version	with headband	for headcap	with headband	for headband
Type	S 7601	S 7701	S 7602/2	S 7603/2
Code	7148105	7148106	7148107	7148109
Weight with cord	650g	600g	650g	650g
Transducers:				
• transmitting	A47421	A47421	A47421	A47421
• receiving	A47421	A47421	A47421	A47421
Call generator:				
• type	--	--	--	G628/2
Cord:				
• color	grey	grey	blue	blue
• maximum lenght	2m	2m	2m	2m
• type	flexible P.V.C.	flexible P.V.C.	flexible P.V.C.	flexible P.V.C.
Compliance	--	--	85.B 6151X	85.B 6151X

Characteristics	Explosive atmosphere (iS) G IIA to GIIC		Gassy mines (iS) G I	
Version	for headcap	for headcap	with headband	for headcap
Type	S 7702/2	S 7703/2	S 7602/1	S 7702/1
Code	7148108	7148110		
Weight with cord	600g	600g	650g	600g
Transducers:				
• transmitting	A47421	A47421	A47421	A47421
• receiving	A47421	A47421	A47421	A47421
Call generator:				
• type	--	G628/2	--	G627/2
Cord:				
• color	blue	blue	blue	blue
• maximum lenght	2m	2m	2m	2m
• type	flexible P.V.C.	flexible P.V.C.	flexible P.V.C.	flexible P.V.C.
Compliance	85.B 6151X	85.B 6151X	85 8003X	85.B 6151X

