

# EX HOWL-CALL TELEPHONE

Zones 0, 1, 2

Full catalogue available on our website: [www.inpratex.com](http://www.inpratex.com)

## ATEX COMMUNICATIONS

## ZONES 0, 1, 2 (gas) & Mines



EU-Type Examination Certificate

Battery and network-independent telephone system for applications under rough conditions, even in potentially explosive or firedamp-endangered areas.

Without any external power supply or complex equipment, it can be installed in blast furnace areas, in tunnel building or mining areas, offshore, on an oil rig, in a deep-sea vessel, or in any place that is not (yet) connected to any energy source.

This dynamic telephony represents an ideal opportunity for connection.

This surprisingly easy but efficient method is already being used in many industrial areas to order material or report malfunctions and, not least, in many cases of work accidents it has already been useful to quickly call for help.

The howl call telephone is a battery-free and network-independent telephone with highly efficient dynamic transmitter and receiver capsules offering remote communication without power supply.

The call signal is generated by turning the rotary knob containing an audio frequency dynamo. All telephones have a sturdy, impact-resistant and weatherproof housing. For years they have proven to be a reliable choice for the mining and tunnel building sectors, at construction sites and for industrial applications. The range is about 10 km.

### ITEM REFERENCES

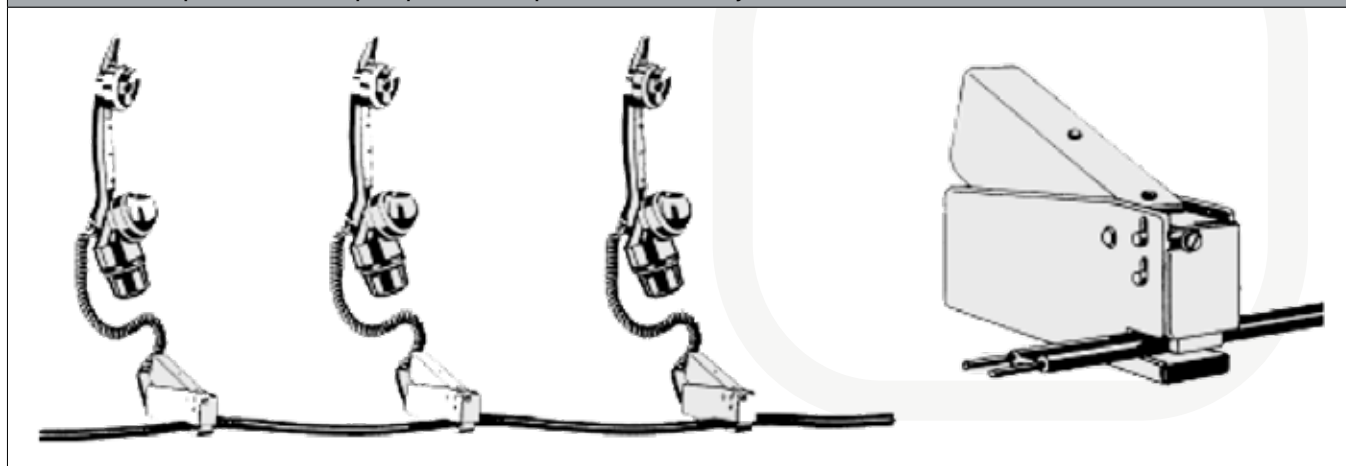
Designation:	Model:	Connected to:	Item No.:
5069 Ex hand telephone	Without prick pincer	-	4B0101
5069 Ex hand telephone	With prick pincer	Flat-band cable	4B0103
5220 Ex wall mounted telephone	Fixed cabling or hose line		4B0104

### ACCESSORIES

Designation:	Item No.:
5077 Prick pincer, stainless steel sheet with 1 m cable (wall mounted telephone)	4B0204
Flat-band cable, 2-wire, tensile strength approx. 500 N (lengths on request)	4B0205

### APPLICATION EXAMPLE

With movable telephone cable with "prick pincer" – the quick connection to any cable section

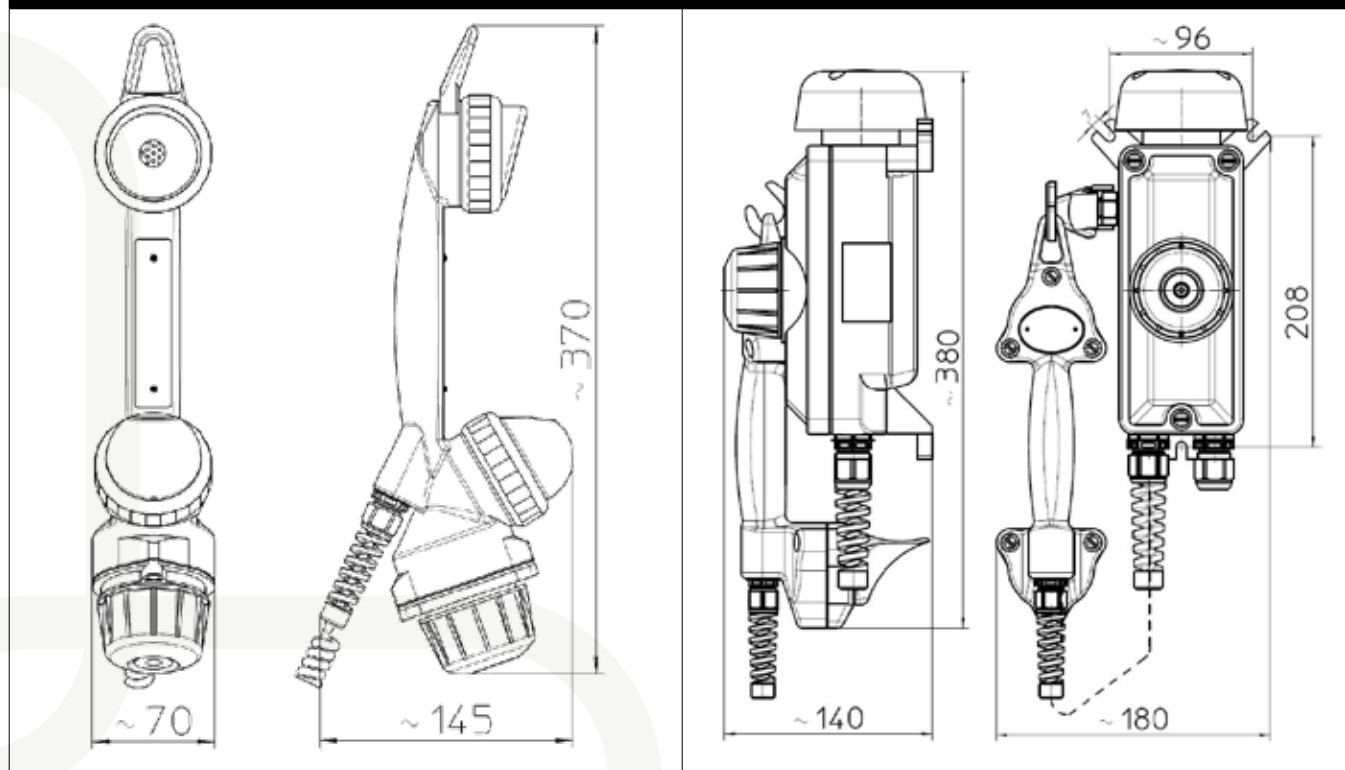


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
## DIMENSIONS



## ELEMENTS

Wall-mounted telephone 5220	Hand telephone 5069	Prick pincer 5077
		

## TECHNICAL SPECIFICATIONS

Marking:	 I M1 Ex ia I Ma  II 1G Ex ia IIC T6 Ga	
	Ex hand telephone 5069	Ex wall mounted telephone 5220
Certificate:	EU-Type Examination Certificate	EU-Type Examination Certificate
Weight:	Approx. 1 kg	Approx. 2,5 kg
Maximum output voltage:	Max. 10 V	Max. 9,5 V
Maximum output current:	Max. 155 mA	Max. 95 mA
Ringing frequency:	Approx. 1540 Hz	Max. 3000 Hz
Operating position:	Any	Vertical, cable glands facing downward
Dimensions:	Approx. 70x120x370 mm	Approx. 380x180x140 mm (with microtelephone)
Mode of operation:	Continuous	
Operating conditions:	Suitable for application in firedamp-endangered underground areas	
Housing:	Polyamide (Black)	
Operating temperature:	-20°C to +40°C	
Ingress protection:	IP54 according to IEC 60529	
Connection:	2-wire blue power cable	

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Dynamic receiver capsules for powerless telephony.

Simply connect the intrinsically safe handset to the socket and you're ready to go. Or, even easier, just prick into our flat-band cable, and the line is established.

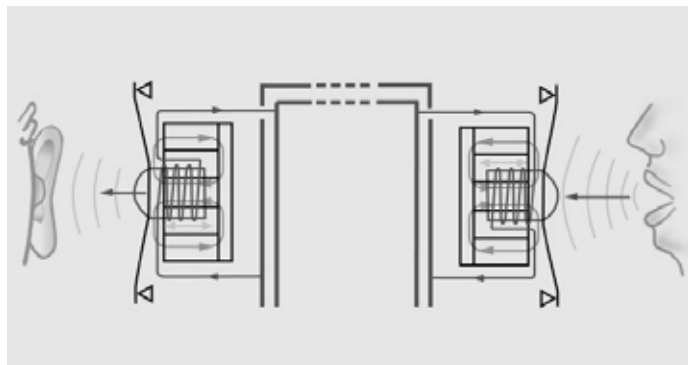
These handsets and telephone systems are explosion-proof and equipped with a high-volume howl capsule, so that they even meet the requirements for the rough and noisy conditions in underground applications.

Intrinsically safe telephony for more independence and safety.

To establish a dynamic telephone system, only two capsules are necessary. A supply with electric voltage is not required. The two capsules must be connected via a two-wire cable.

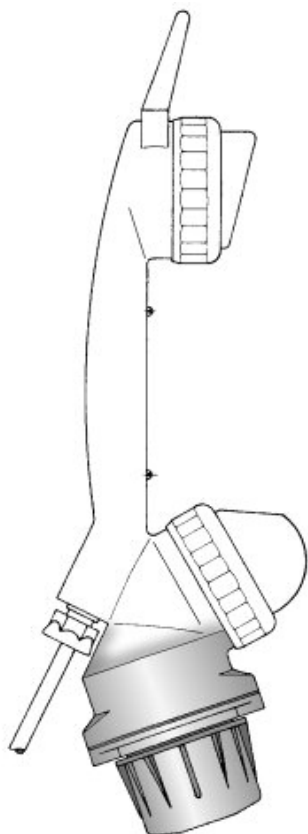
Used as a microphone, the dynamic capsule generates a relatively high voltage from a low sound pressure. It is high enough to also generate a sufficient sound pressure for the other capsule used as receiver.

The two capsules are interchangeable and can both be used as microphone or receiver.



These are the main advantages:

- Simple design
- Quick Installation for frequently changing application sites
- Lightweight mobile devices
- Independent from network and battery
- Constantly ready for operation
- Reduced work load on existing branch exchanges
- Cost-effective



A manually operated electromagnetic call generator generates a wobble current with a frequency of approximately 2000 Hz, which is directly transmitted to the receiver capsule via a two-wire cable.

The current has the effect that an acoustic wobble call is transmitted through the transmitter capsule's membrane.