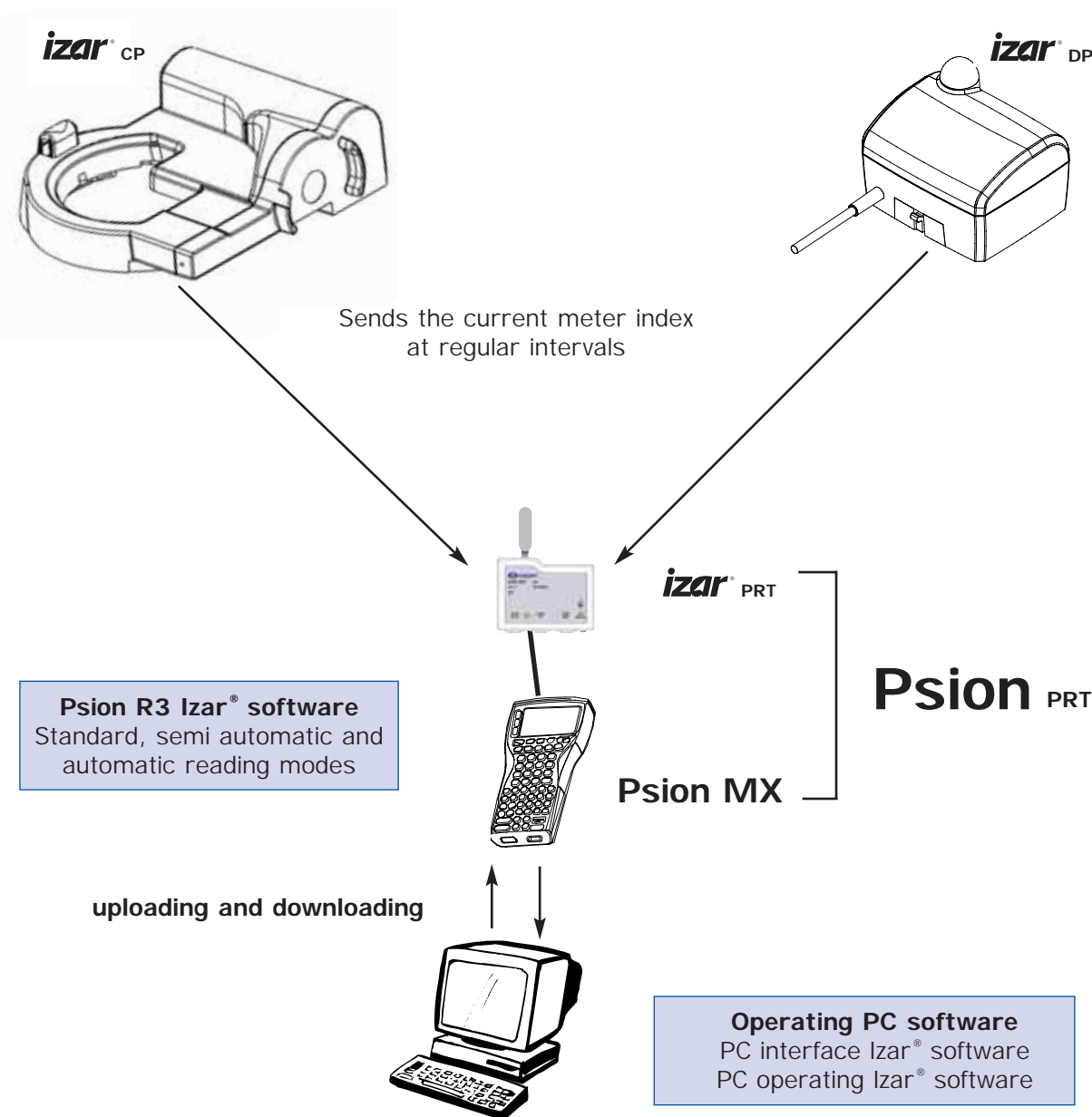


The principle of **izar**[®]



izar[®] radio functions

- Actual meter index
- Index on anniversary date (e.g. Dec. 31)
- Remaining battery life
- Leak detection
- Meter stopped
- Mechanical fraud alarm (removal of Izar^{CP} or cable cut-off for Izar^{DP})
- Magnetic fraud alarm (Izar^{CP}, Izar^{DP})
- Reverse water flow alarm (Izar^{CP}, Izar^{DP}*)
- Overflow alarm
- Underflow alarm

*only if the used sensor delivers the information



izar[®]

Mobile remote meter reading system

The new generation of Izar radio devices is devoted to mobile remote meter reading. The radios operate under Prios protocol at a frequency of 868.95 MHz. They are compatible with Sappel modular meters (Izar^{CP}) and meters fitted with reed dry contact pulse emitters or emitters of the NPN open collector type (Izar^{DP}). The Izar radio units are easy to fit and are field programmable with the identification number of the associated meter.

Izar^{CP} and Izar^{DP} radio modules transmit the meter reading via a unidirectional radio link to a Psion handheld computer equipped with an Izar PRT receiver.

Izar radio modules offer a number of functions (index at anniversary date, battery life etc.) and alarms (leaks, meter blocked, reverse water flow etc.).

One fixed batterie enables independent operation for approximately 15 years of standard use.

izar[®] software

Psion R3 **izar**[®] software



The Izar Psion R3 software is integrated into the flash card of the Psion handheld computer and is particularly user-friendly and suited to all types of reading.

MAIN CHARACTERISTICS :

- Communication with a PC
- Izar radio device programming
- Manual and radio reading (combined rounds)
- Compatible with Izar R1, R2 and R3 radio devices
- Three reading modes:
 - Detailed
 - Semiautomatic
 - Automatic
- Multi-energy: water, gas, heating etc.

PC software

PC INTERFACE IZAR SOFTWARE



This software is used to interface the Izar radio reading system with an existing database. It includes three modules:

- Set-up module (configuration, customisation etc.)
- Module for communication with the handheld terminal
- Reading analysis module.

PC OPERATING IZAR SOFTWARE

This software is used to create and manage a subscriber base and process Izar radio data. In addition to the set-up, communication and analysis modules (see Izar Interface), it provides a database module.

Distributed by :

Freephone : 0800 353 966

If you have any question, please do not hesitate to contact us :

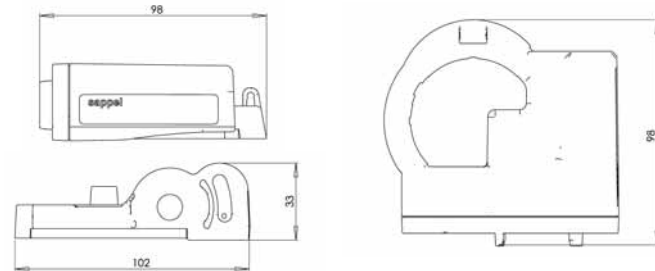
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izar^{CP}

DIMENSIONS



Technical characteristics izar^{CP} / izar^{DP}

RADIO SPECIFICATIONS	CP R3.5	DP R3
Communication protocol	PRIOS	
Frequency	868,95 MHz	
Modulation	FSK	
Power	16 mW	7 mW
Transmission	Unidirectional	
Range	Up to 500 m depending on the environment	Up to 350 m depending on the environment
Compliant with the standard	EN 300 220	
Approved		

POWER SUPPLY

Battery	1 X Lithium 3,6 V fixed	2 X Lithium 3,6 V fixed
Typical life	15 years *	

* Standard conditions of use and temperature. Theoretical life, with no guarantee. See technical manual NT 079/066. For izar^{DP} : sensor with average consumption of 2 uA or less

ENVIRONMENT

Operating temperature range	-15°C to 55°C
Storage temperature range	-20°C to 70°C
Ambient humidity	0 to 100%
Degree of protection	IP 685
Intrinsic safety	on request

PROGRAMMING

Optical interface	IrDA
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COMPATIBILITY izar^{CP}

Meters	Sappel modular range Pulse weight ND 15 to 40 mm : 1 litre Pulse weight DN 50 to 125 mm : 10 litres Pulse weight DN 150 to 200 mm : 100 litres
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PRINCIPLE

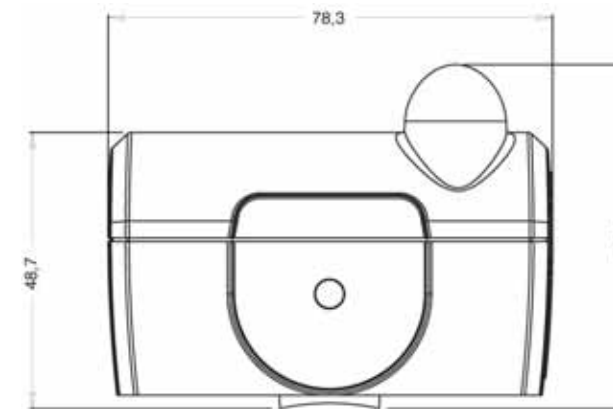
izar^{CP/DP} includes an electronic circuit that picks up the data sent by a pulse emitter and stores it in a memory. Izar^{CP/DP} transmits the index and other operating information every eight seconds (mobile mode). The Psion^{PRT}* handheld computer is first loaded with the reading round data. It collects the reading information and directly transfers it to the central computer system.

(*) The Izar^{CP} system is compatible with other handheld computers as well. Please contact us.



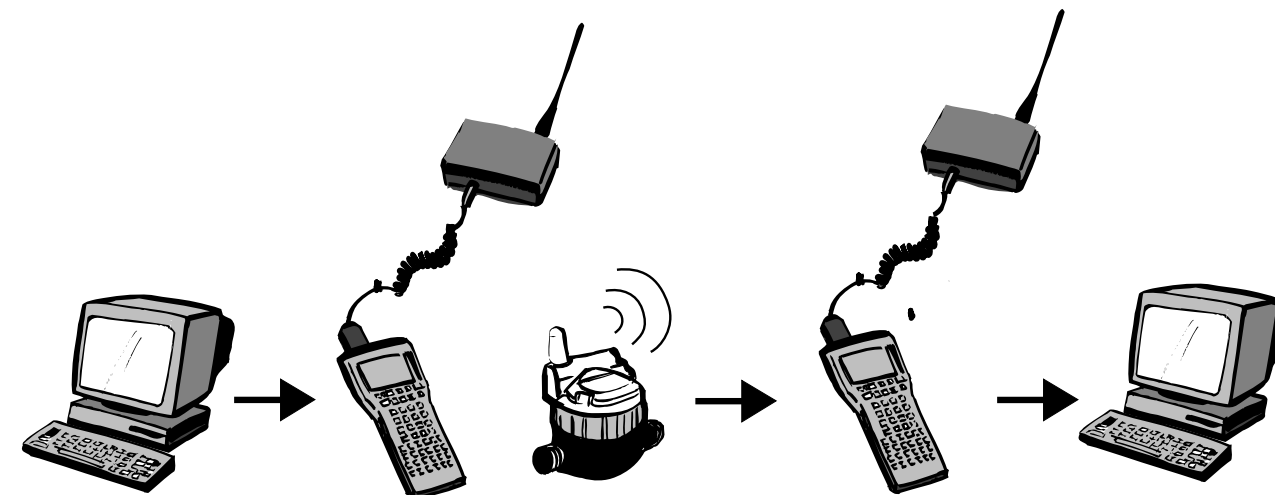
izar^{DP}

DIMENSIONS



COMPATIBILITE izar^{DP}

Pulse emitter	Reed dry contact type emitter or NPN open-collector or L-BUS type emitters
Meters	Sappel modular range and all types of meters (liquid, gas, electricity and heating) fitted with dry contact or open-collector or L-Bus type pulse transmitters
Length of the izar ^{DP} cable	2 meters



1) Uploading

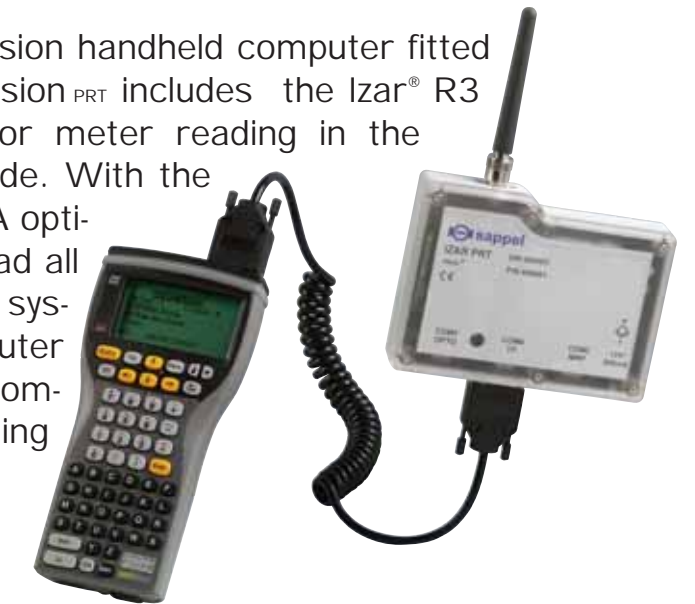
2) Radio reading

3) Downloading

PSION PRT

Handheld computer and radio receiver izar^{PRT}

The Psion^{PRT} system includes a Psion handheld computer fitted with an Izar^{PRT} radio receiver. Psion^{PRT} includes the Izar^{R3} software developed by Sappel for meter reading in the radio mode or in the manual mode. With the Izar^{PRT} radio receiver and the IrDA optical head, it can program and read all meters fitted with an Izar radio system. The Psion handheld computer communicates with all PC type computers for loading and unloading data.



Technical characteristics izar^{PRT} *

Frequency	868,95 MHz
Operating temperature range	-15 °C to + 55°C
Storage temperature range	-20 °C to + 70°C
Protection	IP 43
Power supply	Rechargeable battery with a life of two days (2 X 8 hours) of operation
Interfaces	Serial port for handheld computer Serial port for IZAR ^{MRP} Serial port for IrDA optical head

* available in bluetooth version

Technical characteristics PSION

Microprocessor	NEC V30 MX 16 bits
Clocking speed	27,684 MHz
ROM memory	2 Mo
Internal RAM memory	2 Mo
Memory extension	Removable flash memory of 1 or 4 Mb
Display	LCD screen, 39 characters on 12 lines, back-lit
Power supply	Rechargeable batteries or 2 alkaline AA batteries or mains supply
Data back-up	Replaceable lithium battery
Communication port	Built-in communication interface for connection to a base or an RS 232 connector
Operating temperature	-20°C to 60°C
Storage temperature	-25°C to 70°C
Electromagnetic compatibility	Conform to European directives relatives to electromagnetic compatibility