

IMPROX UHFRX

ImproX 4 Channel UHF Receiver

INTRODUCTION

Impro Technologies currently manufactures two items of ImproX 4-channel UHF equipment. These are:

- The ImproX RF 4-Channel UHF Receiver, and
- The ImproX RF 4-Channel UHF Hand-held Tag.

These two items are designed to operate in conjunction with each other and with an ImproX DT (Door Terminal) and an ImproX PT (Portal Terminal) to provide access control for up to 4 doors.

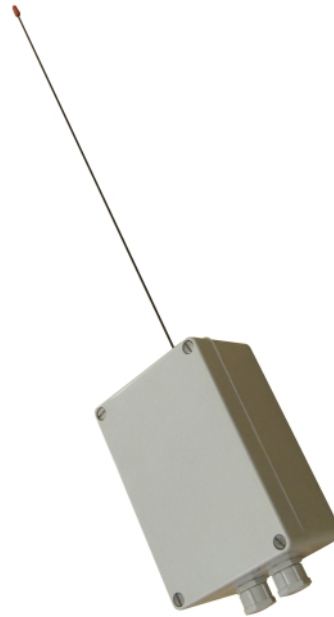
The ImproX 4-Channel UHF Hand-held Tag has 4 push-buttons. Pressing any one of these modulates the UHF carrier with data, which includes the Tag identification number and the channel number.

The ImproX DT unit typically forms part of an Impro IXP 200 or IXP 300 / 400 access control system. The ImproX DT sends the Tag ID data to the associated Controller in the system, and the system software determines whether access shall be allowed or denied to that Tag based on pre-stored system data. The system then instructs the ImproX DT or the ImproX PT unit concerned to allow or deny entry to that Tag.

BRIEF DESCRIPTION OF THE ImproX RF 4-CHANNEL UHF RECEIVER

The ImproX RF 4-Channel UHF Receiver is a high technology OEM product supporting the detection of the ImproX RF 4-Channel UHF Hand-held Tag.

The ImproX RF 4-Channel UHF Receiver is designed to receive UHF transmissions from the ImproX RF 4-Channel UHF Hand-held Tag and to detect which of the four buttons on the Tag was pushed. The UHF Receiver then sends the demodulated Tag identification information, via the relevant channel, to an attached ImproX DT or ImproX PT unit.



APPLICATIONS

The UHF Receiver is designed to detect the operation of an ImproX RF 4-Channel UHF Hand-held Tag as an aid in Vehicular traffic. It allows the use of “anti-pass back”, as the various buttons can initiate an “in” or “out” reader operation. The receiver can also be connected to a 4-Channel Relay output system for use with domestic “garage door/gate” control

FEATURES

- Lightweight.
- Can be used outdoors.
- Operates from 5 V or 12 V DC.

SPECIFICATIONS

PHYSICAL SPECIFICATIONS	Dimensions	L = 140 mm (5.51"). W = 80 mm (3.15"). H = 60 mm (2.36").
	Material	ABS Plastic.
	Colour	Grey.
	ENVIRONMENTAL SPECIFICATIONS	Temperature Operating
	Temperature Storage	-20°C to +85°C (-68°F to +185°F).
	Dust and Splash Resistance	This unit is manufactured in accordance with a dust and splash environment similar to that of IP55.
ELECTRICAL SPECIFICATIONS	Frequency	
	UHF Carrier	433.92 MHz.
	Carrier Accuracy	+/- 100 kHz.
	Modulation Type	Amplitude Shift Keying (ASK).
	Data	
	Encoding	Manchester
	Integrity	16-Bit CRC.
	Receiver sensitivity	Better than -90 dBm.
	Spurious emissions	<- 50 dBm (at antenna).
	Antenna	
	Type	5/8 wave dipole.
	Impedance	50 ohms.
	Input voltage range	
	DC	4.5 V to 5.5 V (terminal +5 V).
DC	12 V to 16 V (terminal +12 V).	
Current consumption		
Receiving	<10 mA.	
Serial transmission		
Distance	20 m.	

RELATED IMPRO PRODUCTS

The ImproX RF 4-Channel UHF Receiver can be used in conjunction with the ImproX RF 4-Channel UHF Hand-held Tag, the ImproX DT Door Terminal, and the ImproX 1A Un-interruptible Power Supply, as well as other Impro Technologies equipment.

ORDERING INFORMATION

The ImproX RF can be ordered using the Impro stock code UHR900-0-1-GB-XX.