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Operational Description

TVTXP916A04 –A02 – A01 are radio 4 - 2 or 1 button portable transmitters so that to send 4 different information (one for each button) to a remote receiver.

The power supply is given by a button cell CR2032 type.

A serial number is set by the manufacturer for each device, different for each transmitter, the produced transmission code is rolling code type.

The encoder stage is managed by a Microchip microcontroller which is awakened up when pushing one of the buttons.

The radio stage consists of a Infineon TDA5102 ,the device contains a fully integrated PLL synthesizer and a high efficiency power amplifier to drive an antenna. The radio transmission consisting in FSK modulation at 916 MHz.

The antenna being integrated in the printed circuit board.

The transmitter is mainly used for controlling devices for domestic use, automatic openings, ON-OFF light control, dimming, etc.

Technical data summary:

Working frequency	916Mhz.
Modulation type	FSK
Frequency deviation	+/- 20khz.
Bit rate	1,5Kb/s
Power supply	3.3V (CR2032 battery)
Standby consumption	100nA.
Transmission consumption	10mA.

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