

ZPIO

Wireless repeaters of analogue and discrete signals

ZPIO eliminates cable connections and simplify your installations.



ZPIO modules replace the cable between the signal transmitter and the receiver with a reliable wireless connection. Data delivery between ZPIO modules is guaranteed by the applied protocol for transmission with confirmation, standard IEEE 802.15.4 and ZigBee.

ZPIO allows to control remote analogue and discrete outputs and/ or to get information about the discrete and analogue inputs.

WHY ZPIO?

- Get over rivers, roads, railways and other obstacles without need of any construction works
- Easy and fast installation
- Reliable work inside and outside
- Low maintenance costs due to lack of cables.

State on the inputs is copying automatically on the outputs of the remote module.

FEATURES

- Up to 8 digital I/O, up to 4 analogue I/O in one ZPIO, galvanic isolated
- Analogue I/O resolution - 10 bits
- Peer-to-Peer mode of communication between two **ZPIO** modules
- Range up to a few kilometres depending on the antenna
- Frequency - ISM 2.4 GHz
- RF Data rate – 250 000 bps
- Modulation – O-QPSK, DSSS
- Output power - programmable, max. 50 mW; for EU configured at 10 dBm
- IP65 protection against moisture and dust
- Wide temperature range: -20°C ÷ $+60^{\circ}\text{C}$
- Power supply 220 VAC or 12 VDC (sleep mode - low consumption), built-in lightning protection.

Ordering code: ZPIO - A BC-D, where:

ZPIO - Wireless repeater for I/ O signals (parrot) under standard IEEE802.15.4, RF data rate 250Kbps, range ISM 2.4 GHz, O-QPSK modulation and DSSS spread spectrum.

A - POWER SUPPLY

- 1 - 220VAC
- 3 - 12VDC

D - ANTENNA or CONNECTOR

- 0 - Internal omnidirectional whip 1.5 dBi
- 1 - Fixed dipole antenna 5 dBi, radiomodule UFL
- 2 - Connector type N(f) for external antenna
- 4 - Connector type RP SMA (m) for external antenna
- 5 - Fixed dipole antenna 5 dBi, radio module SMA

BC - BUILD-IN INPUTS/ OUTPUTS

11 - Four÷eight inputs selectable for dry contact or DC switch - common "-". Up to four outputs - common "-", open collector.

12 - Up to four inputs for dry contact or DC switch - common "-". Four÷eight outputs selectable—common "-", open collector.

13 - Two inputs 4-20mA, 10bits, optical insulation between inputs and internal bus. Two outputs 4-20mA, 10bits, optically non-insulated, 2-wire connection, passive.

14 - Two DI for dry contact and two relay outputs.

21 - Five general DI for dry contact or DC switch. Two alarm inputs. One DI for accumulator voltage. **Sleep mode.**

22 - Three general DI for dry contact or DC switch. Two alarm inputs. One DI for accumulator voltage. Bypassed one internal input and one internal output for radio communication control. **Sleep mode.**

24 - Relay outputs 2A - 6 pcs. Selectable DC input or transistor output - 2 pcs.

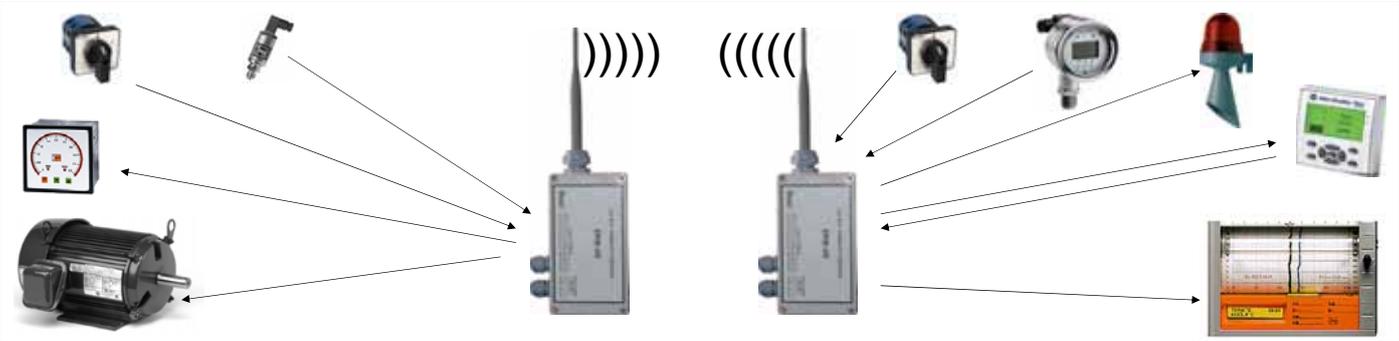
33 - Two inputs 4-20mA, 10bits, optical insulation between inputs and internal bus. Two passive outputs 4-20mA, 10bits, optical insulation between outputs and internal bus. Two power supplies for I/O.

51 - Four÷eight DI, 24 VDC, common "-", activation by signal "+". Up to four DOT 24 VDC/ 200 mA with common "+", load between output and "-".

52 - Four ÷ eight DOT 24 VDC/ 200 mA, common "+", load between output and "-". Up to four DI 24 VDC with common "-" and activation by signal "+".

64 - Six relay outputs 2A. Selectable DC input or transistor output - 2 pcs. 24 VDC inputs, common "-", activation by signal "+". 24 VDC/ 200 mA outputs, common "+", load between output and "-". External power supply for I/O 24 VDC.

APPLICATION EXAMPLES



For additional information:

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