RAD-Line IO - UD wireless system with Trusted Wireless

The unidirectional wireless systems **RAD-ISM-900-SET...UD...** consist of a transmitter (transmitter, TX) in an IP20 or IP65 housing and a receiver (receiver, RX) in IP20 housing.

In the license-free ISM band 900 MHz, a safe and reliable signal path is prepared when using the frequency hopping method.

The so-called PIPE modules **RAD-ISM-900-SET-AC-UD** or **RAD-ISM-900-SET-DC-UD** can be installed directly outdoors. Thus, no additional control box is required. The convenient connection of the power supply unit and the sensors or actuators is established in a simple, rugged and quick manner.

Devices for the direct mains connection (100...240 V AC) as well as for the low-voltage range (9.30 V DC) are available. These devices can be easily supplied using extremely small batteries or solar systems.

**Note:** The products are provided only for export outside the EU and the European Economic Area.

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**RAD-ISM-900-SET-UD-ANT**

Set consisting of transmitter, receiver and two antennas with connecting cables

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**Technical data**

- **Direction:** Unidirectional
- **Frequency range:** 902 ... 928 MHz
- **Transmission capacity:** 1 W
- **Number of channels:** 4 x 63
- **Analog input:**
  - **Number of inputs / signal range:** 1 x 4 mA ... 20 mA
  - **Input resistance:** < 150 Ω
- **Digital input:**
  - **Number of inputs / signal range:** 2 x 5 V AC/DC ...
- **Switching level:**
  - **1 signal (“H”):** Min. 5 V DC
  - **0 signal (“L”):** Max. 1.5 V DC
- **Analog output:**
  - **Number of outputs / signal range:** 1 x 4 mA ...
  - **Load R_L:** 700 Ω (at U_L = 24 V, R_L = [U_L - 10 V] / 20 mA)
- **Digital output:**
  - **Switching voltage:** 30 V DC / 120 V AC
  - **Switching current:** 0.5 A
- **General data:**
  - **Supply voltage:** 12 V DC ...
  - **Current consumption:** 75 mA / 350 mA
  - **Degree of protection:** IP20
  - **Ambient temperature range:** –40°C ... 70°C
  - **Housing material:** Polyamide PA non-reinforced
  - **Dimensions W / H / D:** 17.5 / 99 / 114.5 mm
  - **Conformance / approvals:** FCC directive, Part 15.247

**Type** | **Order No.** | **Pcs. / Pkt.**
--- | --- | ---
**Wireless set** (transmitter, receiver, including antennas) | RAD-ISM-900-SET-UD-ANT | 2867102 / 1
| | RAD-ISM-900-RX | 2867047 / 1
| Receiver (individual) | RAD-ISM-900-SET-UD-ANT-AU | 2867416 / 1
| | RAD-ISM-900-RX-AU | 2867445 / 1
| Receiver (individual) | RAD-ISM-900-SET-UD-ANT-NZ | 2885029 / 1
| | RAD-ISM-900-RX-NZ | 2885058 / 1
RAD-ISMS-900-SET-AC-UD
Set, consisting of transmitter for the mains connection (IP65) and receiver (IP20) including antennas

RAD-ISMS-900-SET-DC-UD
Set, consisting of transmitter for the low-voltage range (IP65) and receiver (IP20) including antennas

<table>
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<th>Order No.</th>
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<tbody>
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<td>RAD-ISMS-900-SET-AC-UD-AU</td>
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<tr>
<td>RAD-ISMS-900-SET-AC-UD-NZ</td>
<td>2885032</td>
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<td>RAD-ISMS-900-SET-DC-UD</td>
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America | Australia | New Zealand | Unidirectional | Unidirectional | Unidirectional |
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<tr>
<td>902 ... 928</td>
<td>915.1 ... 927.8</td>
<td>921.4 ... 927.7</td>
<td>[MHz]</td>
<td>1 W</td>
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1 x 4 mA ... 20 mA
< 170 Ω
2 x 85 V AC ... 240 V AC
- -
1 x 4 mA ... 20 mA
700 Ω (at U_L = 24 V, R_P = [U_L-10 V] / 20 mA)
3 floating PDT contacts
30 V DC / 120 V AC
0.5 A
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<td>12 V DC ... 30 V DC</td>
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<tr>
<td>57 mA / 109 mA</td>
<td>85 mA / 125 mA</td>
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<tr>
<td>IP65</td>
<td>-40°C ... 70°C</td>
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<td>5052H32AL PBT</td>
<td>Polyamide PA non-reinforced</td>
</tr>
<tr>
<td>57 / 280 / 57 mm</td>
<td>17.5 / 99 / 114.5 mm</td>
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FCC directive, Part 15.247
I&SC directive RSS 210
Class I, Div. 2, Groups A, B, C, D

America | Australia | New Zealand | Unidirectional | Unidirectional | Unidirectional |
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<td>75 mA / 350 mA</td>
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