Expert Sensor Box 7213 / 7214 Series

Stand-alone LAN Sensor for remote monitoring of temperature, relative humidity and air pressure

Features

- Integrated temperature sensor (7213-1, -11 and 7214-1, -11)
- Integrated temperature, humidity sensor (7213-2, -12 and 7214-2, -12)
- Integrated temperature, humidity sensor, air pressure (7213-3, -13 and 7214-3, -13)
- For 7213-11, -12, -13 and 7214-11, -12, -13: Additionally to power supply over external supply unit also Power-over-Ethernet (PoE) possible
- Switchable, potential-free relay output with change-over connectors (NO and NC), high switching voltage 36 V, 3 A (*)
- Relay exposes high contact reliability also at very small loads (*)
- Passive signal input for monitoring NO and NC devices, e.g. smoke or leakage sensors and door contacts (*)
- Switching of relay output dependent on sensor threshold and input possible (*)
- Signal input includes a 12 V connector for supply of NO/NC devices (*)
- 1-channel watchdog for monitoring connected consumers (ICMP/TCP) (*)
- 2 inputs for redundant power supply (12 V DC) by external power supply units (*)
- Messages by e-mail, Syslog and SNMP traps depending on threshold values of sensor metering and for 7214 Series for signal input as well
- Comfortable configuration by web browser, Windows or Linux tool
- Firmware update over Ethernet during operations (without reboot of device)
- HTTP/HTTPS, e-mail (SSL, STARTTLS), DHCP, Syslog

Order code | Product | Features: | T | TH | THP | R | S | Se | Connector 12 V power supply | Power-over-Ethernet
--- | --- | --- | --- | --- | --- | --- | --- | --- | --- | ---
7213-1 | Expert Sensor Box 7213-1 | 1 | 2 | 1 |
7213-2 | Expert Sensor Box 7213-2 | 1 | 2 | 1 |
7213-3 | Expert Sensor Box 7213-3 | 1 | 2 | 1 |
7213-11 | Expert Sensor Box 7213-11 | 1 | 2 | 1 | x |
7213-12 | Expert Sensor Box 7213-12 | 1 | 2 | 1 | x |
7213-13 | Expert Sensor Box 7213-13 | 1 | 2 | 1 | x |
7214-1 | Expert Sensor Box 7214-1 | 1 | 1 | 2 | 2 |
7214-2 | Expert Sensor Box 7214-2 | 1 | 1 | 2 | 2 |
7214-3 | Expert Sensor Box 7214-3 | 1 | 1 | 2 | 2 |
7214-11 | Expert Sensor Box 7214-11 | 1 | 1 | 2 | 2 | x |
7214-12 | Expert Sensor Box 7214-12 | 1 | 1 | 2 | 2 | x |
7214-13 | Expert Sensor Box 7214-13 | 1 | 1 | 2 | 2 | x |

T = Integrated temperature sensor
TH = Integrated temperature, humidity sensor
THP = Integrated temperature, humidity, air pressure sensor
R = Switchable relay output
S = Passive signal input
Se = Sensor interface
Electrical Connections
- Socket for external power supply unit (PTR multiconnector, 2-fold); one unit included in delivery
- Socket for additional external power supply unit (PTR multiconnector, 2-fold) (*)
- Switchable output (PTR multiconnector, 3-fold) (*)
- Passive signal input (PTR multiconnector, 3-fold) (*)
- 2 sensor connectors RJ45 for optional sensors for temperature, humidity and air pressure
- Ethernet connector RJ45 (10/100 Mbit/s) (for 7213-11, -12, -13 and 7214-11, -12, -13 also for supply by Power-over-Ethernet)

(*) Features of Expert Sensor Box 7214 Series

Technical Details
- Powdered steel case, LxHxD: 100 x 90 x 34 mm (including brackets, without sensor pipe)
- Plastic sensor pipe, length: 94 mm, diameter: 15 mm
- Weight: ca. 300 g
- Comfortable DIN rail mounting and freely selectable device orientation by optional Mounting Clip 0860
- Operating temperature device: 0-50 °C
- Operating temperature sensor pipe: -20 - 80 °C
- Storage temperature: -20 - 70 °C
- Relative humidity: 0 - 95 % (non-condensing environment)
- Measuring range air pressure: 300-1000 hPa
- Measuring accuracy:

<table>
<thead>
<tr>
<th>Temperature</th>
<th>typical</th>
<th>Humidity</th>
<th>typical</th>
</tr>
</thead>
<tbody>
<tr>
<td>-20 - 80 °C</td>
<td>±0.3 °C</td>
<td>0 - 100 %</td>
<td>±3 %</td>
</tr>
<tr>
<td>5 - 60 °C</td>
<td>±0.2 °C</td>
<td>10 - 80 %</td>
<td>±2 %</td>
</tr>
</tbody>
</table>

Expert Sensor Box 7213 Series

Topside of Expert Sensor Box 7214 Series:
PTR multiconnectors for relays output, signal input and redundant power supply

Order Code | Product Description | Feature
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7101 | Temperature Sensor 7101 | Cable sensor with splash-proof sensor head (IP64), RJ45 connector, -20°C to +80°C, cable ca. 2.3 m
7104 * | Temperature Sensor 7104 | Cable sensor, RJ45 connector, -20°C to +80°C, cable ca. 2.3 m
7105 * | Temp., Humidity Sensor 7105 | Cable sensor, RJ45 connector, -20°C to +80°C, 0-90% humidity, cable ca. 2.3 m
7106 * | Temp., Humidity, Air pressure Sensor 7106 | Cable sensor, RJ45 connector, 20°C to +80°C, 0-90% humidity, 300-1100 hPa, cable ca. 2.3 m

* Sensors also available with calibrated temperature range: 7104-2, 7105-2, 7106-2

7201 | Temperature Sensor 7201 | Box case with RJ45 socket, -20°C to +80°C
7202 | Temp., Humidity Sensor 7202 | Box case with RJ45 socket, -20°C to +80°C, 0-90% humidity
7311 ** | Optical Smoke Detector 7311 | Overhead installation (d=100 mm), screw terminal NO or NC
7312 ** | Thermal Smoke Detector 7312 | Overhead installation (d=100 mm), screw terminal NO or NC
7313 ** | Leakage Point Sensor 7313 | 13 mm two-tined, detects flooding, 4-core wire (2.5 m)
7940 ** | Combined Signaling Device 7940 | Optical/acoustic alarm device, 100 dB sound pressure, 3-core connection cable (0.4 m)

** compatible only to Expert Sensor Box 7214 Series

7903 | Power Supply Unit 7903 | 12 V DC, 1 A, 2-fold PTR multiconnector, included in delivery
0860 | DIN Rail Mounting Clip 0860 | Plastic clip for easy installation on DIN rails