



Device for ensuring safety and monitoring environmental conditions
USPD "PUMA 30.05.09"

USER MANUAL

Content

1. Purpose	3
2. Appearance.....	3
3. Completeness.....	3
4. Installation and dismantling	3
5. Technical specifications.....	4
6. Purpose of connectors and indicators on the front panel	5
7. Maintenance	7
8. Manufacturer's (supplier's) warranties.....	7

1. Purpose

The data collection and transmission device USPD Puma30.05.09 (hereinafter USPD or device) allows monitoring the status and managing the modes of equipment at a remote facility, using TCP and SNMP data transmission protocols.

2. Appearance

The general appearance of the device is shown in Figure 1.



Figure 1 – General appearance of Puma 05/30/09

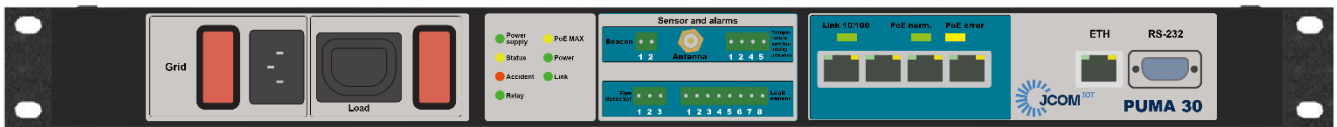


Figure 2 – View of the front panel of Puma 05/30/09

3. Completeness

The complete set of the device is presented in Table 1. Table

1. Complete set of the device

Name	Qty.
USPD Puma 05/30/09	1
Antenna with cable for connecting a wireless sensor	1
Power cable	1
Passport	1
User manual	1

4. Installation and dismantling

Only persons with a qualification group in electrical safety of at least the third level, who have completed a training course and received the appropriate certificate, are allowed to install, adjust and maintain the product.

The installation of the product must be carried out in industrial premises with an atmosphere that does not contain chemically active and aggressive vapors and conductive dust, with a dust content of no more than 3 mg/m³, in places protected from direct sunlight and water.

The product enclosure is designed for installation in 19" telecommunications cabinet rails. It is 1U high. After installation, external connection cables are connected to the enclosure. Cable connections are made using screw clamps.

5. Technical specifications

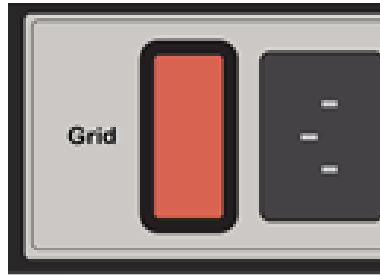
The main technical characteristics of the device are presented in Table 2.

Table No. 2.Equipment specifications

Item No.	Characteristics of the USPD PUMA30.06.09	Meaning
1	Frame	1U for 19" rack mounting
2	Operating range of AC power supply	from 100V to 250VAC
3	Operating temperature range	from 0°C to +45°C
4	Operating humidity range	from 0% to 95%
5	Noise during operation	no more than 40 dBA (fanless power supply)
6	Operating system included with the device	Linux
7	Screw terminal connectors for connecting sensors	+
8	Number of temperature control points	connection of up to 5 wired sensors temperature and humidity via RS485 interface
9	Number of humidity control points	
10	Smoke control	Connecting the sensor smoke (1 or 2 pieces) - Optical-electronic point smoke fire alarm
11	Liquid leak control	Possibility to connect a tape or point leak sensor
12	Controlled socket type C13	European socket (type C13) network on the body
13	Permissible load on a controlled socket	switching loads up to 12A
14	Wireless gateway included with the device to poll a wireless temperature sensor	+
15	Connector for connecting a tape leak sensor (sensing element length from 1 m to 200 m)	+
16	Possibility of light notification about events in a controlled area	1) indicators on the front panel of the device 2) connection connector external emergency flashing beacon
17	Number of Ethernet ports with PoE function for connecting CCTV cameras	4 pcs PoE
18	Support for interaction with external systems via FTP, Telnet/SSH, SNMP (SNMPv2 and SNMPv3 support), email, WEB/SSL, RS232	+
19	To collect information, the device supports TCP/IP network transmission protocols with the ability to view the current status via a web interface.	+
20	The device provides the ability to configure threshold values (multiple threshold values for one sensor, severity levels) in accordance with the settings.	+

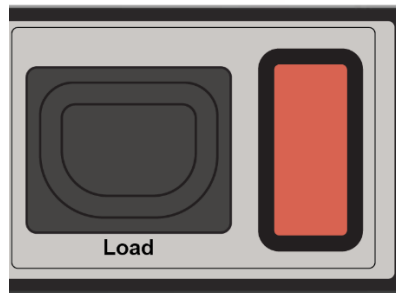
6. Purpose of connectors and indicators on the front panel

6.1 “Network” supplies power to the device.

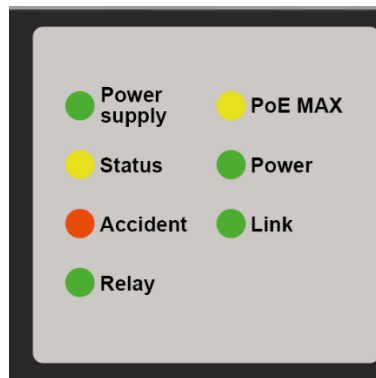


Drawing

6.2 “Load” - connecting the load to the controlled socket



6.3 Front panel indicators



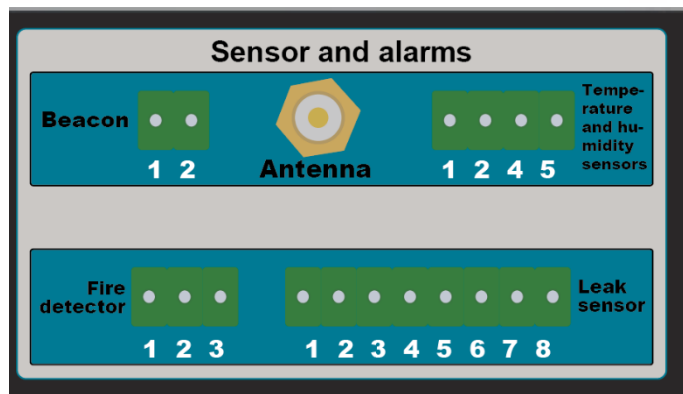
Drawing

Table 1

Indicator	Color	State
Nutrition	Green	On – power to the device Off – no input power
Status	Yellow	On and on for 15 seconds – the device is booting up Flashes once every 60 seconds – normal mode
Accident	Red	Enabled – an emergency situation has occurred, for example, a parameter has gone beyond a threshold. Off – no accident.
Relay	Green	On – The controlled load relay is on Off – The controlled load relay is off

PoE Max.	Yellow	On – Total power consumption is greater than 53W. Blinking – Output power for PoE devices has exceeded the maximum power budget (60W). Off – Total power consumption is below 53W.
Power	Green	On – the switch is powered on Off – the switch is powered off
Link	Green	On - A device is connected to the port at 10/100 Mbps. Blinking - The port is transmitting or receiving data. Off - The device is not connected to the port.

6.4 Sensor connection connectors



Drawing

“Beacon” - Connector for connecting the emergency flashing beacon

“DTV” - Connector for connecting wired temperature and humidity sensors via RS485

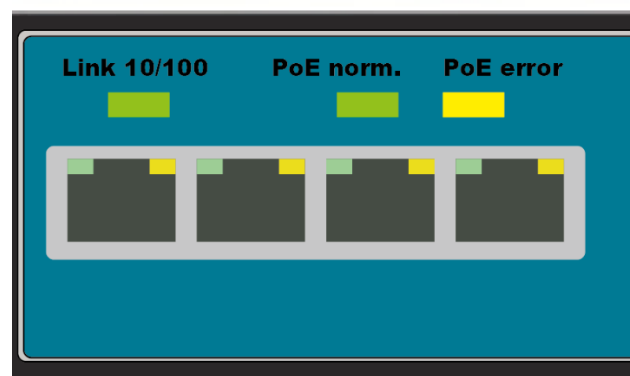
“IP” - Connector for connecting a fire smoke detector

“DP” – Leak Sensor

“ANT” – Connector for connecting the antenna of the built-in radio coordinator for working with wireless temperature sensors.

The connection diagram of the sensors is given in Appendix 1.

6.5 Four POE switch ports for connecting video cameras.



Drawing

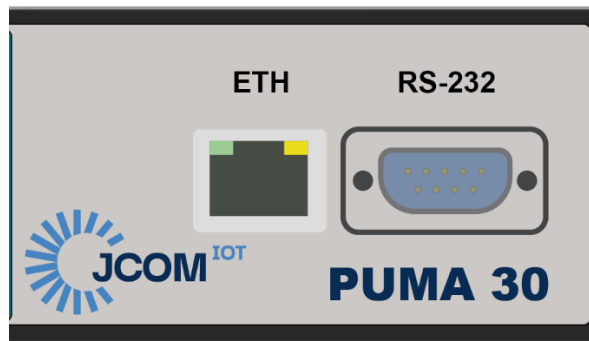
The ports support the IEEE 802.3at PoE standard. Each PoE port supplies up to 30W of power.

Each connector has 3 indicators: Link 10/100, PoE normal, PoE error

Table 2

Indicator	Color	State
Link 10/100	Green	Enabled – A device is connected to the port at 10/100 Mbps. Flashing - The port is transmitting or receiving data. Off - No device is connected to the port.
PoE is normal	Green	On – The PoE-enabled device is successfully connected and receiving power. Off – No PoE device is connected.
PoE error	Yellow	Blinking – The PoE load is being supplied correctly, but the switch does not have sufficient power to support the required load. Power is not supplied to the port.

6.6 Ethernet port for network connection. RS232 for debugging the data acquisition system or polling devices.



Drawing

7. Maintenance

The module is a maintenance-free device and is designed to operate indefinitely under the following operating conditions: stable power supply within the specified voltage range, proper humidity and temperature, non-aggressive gas environment, and absence of shock and vibration. There are no parts inside the device's housing that require periodic inspection and/or maintenance.

8. Manufacturer's (supplier's) warranties

The manufacturer guarantees that the device complies with the technical specifications, subject to the conditions of transportation, storage, installation and operation.

The warranty period for the device is 12 months, counting from the date the device is put into operation.

During the warranty period of the device, the manufacturer has the right to supervise its correct operation in order to improve the quality and efficiency of operation.

Device components that fail during the warranty period are subject to replacement or repair by the manufacturer at the manufacturer's expense.

Important!

The user loses the right to free repairs during the warranty period in the event of broken seals, mechanical damage by the user, or if the device was repaired by a person who is not authorized to perform repairs and maintenance.

