CVD-452 Controller

CVD-452 Controller is intended for perimeter intrusion detection systems. It is incorporated in a sealed stainless steel housing with a tamper switch.

CVD-452 supports connection of two alarm loops and two Passive PoE IP-cameras. It's specific feature is the ability to combine several controllers sequentially in a chain thus allowing for extension of secured perimeter line. CVD-452 provides for Ethernet data repeat and power for other CVD-452.

CVD-452 controller is powered by spare wires of Passive PoE power cable. SFTP cable generates a network of 8 controllers providing power for connected devices (subject to standard equipment and distance between controllers). It is possible to use additional power source to power other controllers as well.

Perimeter security sensors are connected via alarm loops. There are two relays to connect floodlights if necessary and two outputs for remote control.

Controller settings are adjusted via WEB interface displaying the current state of connected sensors and tamper switch, power voltage value and providing remote control function.

Technical features

Parameter	Value
Number of connected IP-cameras, pcs.	2
Number of alarm loops, pcs.	2
Number of dry contracts, pcs.	2
Number of RS-485 ports, pcs.	1
Data speed rate via RS-485, bites/sec	from 2400 to 115200
Max number of controllers in one network, pcs.	8
Max distance between nearby controllers, m	100

Protection of Ethernet networks from pulse overvoltage	Yes
Protection from pulse noises and short circuit for 24V	Yes
DC voltage for connected devices, V	24
DC voltage range, V	From 30 to 57
Consumed current (without connected devices), not more, mA, at voltage - 24V - 48V - 54V	52 40 29
Max power line current - cameras, A - sensors, мА	1 500
Interface	10BaseT/100BaseTX Ethernet (RJ-45)
Operating temperatures, °C	from -40 to +50
Weight, not more, kg	2,5
Overall dimensions, mm	305x169x83

Connection
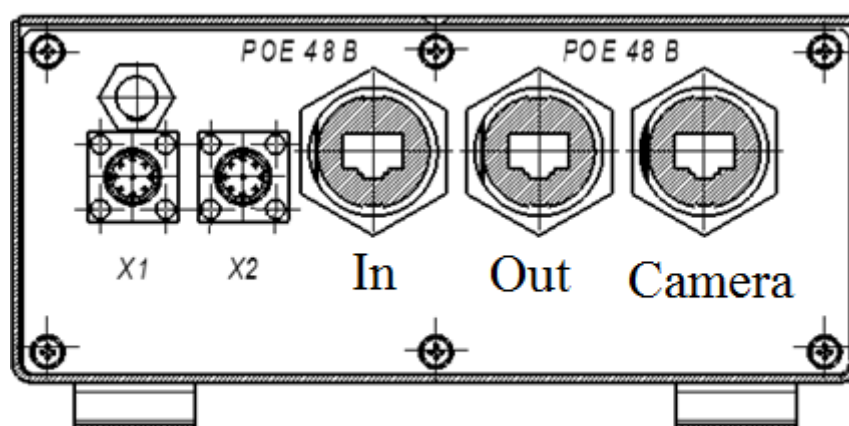
X1, X2 – to connect security sensors, floodlight and external power supply.

In – Ethernet and 48V PoE power input. Connects network switch or server.

Out – Ethernet and 48V PoE power output. Connects next controller in line or IP-camera.

Camera   – for IP-camera (Ethernet and PoE 48V).

X1 socket pin description:

№ pin.	Indication	Purpose
1	RC2	Remote control – 2
2	RC1	Remote control – 1
3	K1	Normally-open relay 1
4	-24B	Output power coltage
5	+24B	
6	+48B	Controller power voltage

7	-48B	
8	+48B	
9	-48B	

X2 socket pin description:

№ pin.	Indication	Purpose
1	K2	Normally-open relay 1
2	Out COM	General contact relay 1, 2
3	IN2-	Perimeter sensor loop connection 1
4	IN2+	
5	IN1-	Perimeter sensor loop connection 2
6	IN1+	
7	A	«A» RS-485
8	B	«B» RS-485
9	COM	General RS-485

Default settings:

IP – address: 172.16.16.51
Subnetwork mask: 255.255.255.0
Login – root;
Password – pass.