

# AXON PoE Multi Net Protector AXON PoE Multi Net Protector RACK

19" rack mount multichannel surge protection  
of PoE terminal equipment



The **AXON PoE MultiNET Protector** family is designed to provide surge protection of data transmission in the 10/100 Mbps Ethernet systems and is especially designed to protect modems, routers and repeaters, that are powered remotely through PoE technology i.e. through unused pairs of wires in the transmission cable. Depending on the version, it has 4 or 12 independent channels, providing protection of the signal and power lines in one device. The **AXON PoE Multi-*NET* Protector** contains two groups of lines in each channel - data lines (lines 1-2, 3-6) and power supply lines (lines 4+5, 7+8). Both of them are protected by surge arrester, which discharges the surge energy to the earth and also protects the lines in the individual pairs of wires. In order to increase the load capacity of the power supply circuit, the line 4 is shorted out with the line 5, as well as the line 7 with the line 8. The **AXON PoE MultiNET Protectors** are available in two versions, allowing you to customize the configuration to suit your needs. Both versions feature metal housing that guarantees high resistance to various mechanical exposures and provides shielding of the entire protective circuit. The **AXON PoE MultiNET Protector RACK** has a metal housing that is designed for mounting in the 19-inch rack cabinets.

### Common specifications:

	Data side (pairs 1-2, 3-6):
Nominal voltage $U_N$	5V
Maximum voltage $U_C$	6V
Level of protection $U_P$ (line-line)	$\leq 40V - 1kV/\mu s, C3$
Level of protection $U_P$ (line-earthing)	$\leq 600V - 1kV/\mu s, C3$
Nominal discharge current $i_N$ (line-line)	20A - 10/1000 $\mu s, C3$
Nominal discharge current $i_N$ (line-earthing)	20A - 10/1000 $\mu s, C3$
	Power side (line 4, 5 & 7, 8):
Nominal voltage $U_N$	50V
Maximum voltage $U_C$	56V
Rated current $I_N$	400mA
Level of protection $U_P$ (line-line)	$\leq 95V - 1kV/\mu s, C3$
Level of protection $U_P$ (line-earthing)	$\leq 1000V - 1.2/50\mu s, C2$
Nominal discharge current $i_N$ (line-line)	10A - 10/1000 $\mu s, C3$
Nominal discharge current $i_N$ (line-earthing)	2kA - 8/20 $\mu s, C2$
Standards	EN 61643-21

### Specifications only for AXON PoE Multi Net Protector

Dimensions	167x50x32mm + 0.5m earthing wire
Housing / Weight	metal, powder coated / 0.4kg
Number of channels / Type of sockets	4 / RJ45 (8P8C) shielded

### Specifications only for AXON PoE Multi Net Protector RACK

Dimensions	444(490)x50x44mm + 0.5m earthing wire
Housing / Weight	metal, powder coated / 1.3kg
Number of channels / Type of sockets	12 / RJ45 (8P8C) shielded

The manufacturer reserves the right to change the technical parameters of the device, resulting from technological progress.  
NOTE! Specifications define the maximum values of voltage spikes, against which the device is protected.