

## AT91 Series

# MODULAR PROTECTOR FOR TELEPHONE LINES FOR DIN RAIL



## ATFONO

AT-9101 ATFONO: prepared for 2 pairs of telephone lines

AT-3501: RF SPD TESTER:  
Radiofrequency SPD tester.

Efficient protection for **analogical and ADSL telephone lines**, containing **coordinated protection for 2 pair of lines**.

- Both common and differential protection recommended for this type of lines.
- Allows the connection of 2 pairs of lines with a very small size (0,75 DIN modules)
- Protection for telephone lines and also for the digital and analogical equipment connected to these lines (fax, modem, etc).
- Pluggable modules for its easier substitution in case of failure without the need of disconnecting the wiring. When substituting the module the line suffers no interruptions.
- It has a radiofrequency receptor in order to do the maintenance only with issuer equipment. When the RF SPD Tester is applied and the protector is working, the LED flickers green. If the cartridge is damage the LED does not flick
- Earthing implemented through a metallic sheet opposite to the fixing DIN rail.
- In normal conditions stays inactive, without affecting the line working and without producing any leakage.
- Both common and differential modes of protection.
- Very fast response.
- Connection with screw pressure, which provides better lightning current withstanding capacity than usual telephone connectors.

ATFONO SPD has been tested in **official, independent laboratories**, obtaining their characteristics according to relevant standards (related in the table).

**⚠ Earth connection is a must.** Earthing in all the installation must be bonded either directly or by a spark gap and resistance should be lower than  $10\Omega$ . If the indications of this datasheet are not fulfilled during the use or installation of the SPDs, the protection assured by this device could be endangered.

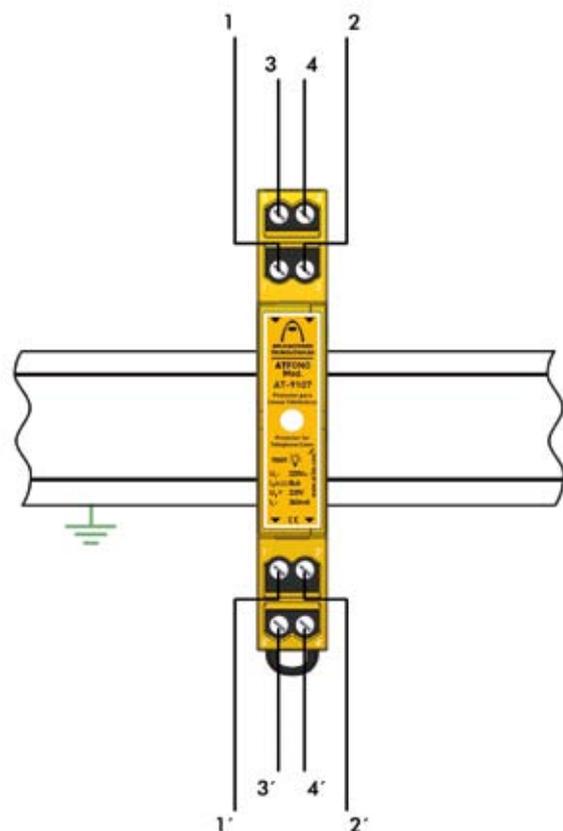
## Installation

ATFONO Surge Protective Devices are to be installed in series with the telephone line, at the point where the line enters the building and always the telephone company indications should be complied.

When the 2 devices to be protected are placed in different buildings and intercommunicated, SPDs should be placed both where the line goes into and out of the buildings.

The recommended procedure for its installation is the following:

1. Cut the telephone cable
2. Insert the telephone ends in the connectors. Verify carefully that input and output connections are correctly placed.
3. Connect the DIN rail to the earth terminal, since the overvoltage should be derived to this element.



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### Technical Datasheet

Reference		ATFONO AT-9101
Nominal voltage:	$U_n$	130V <sub>DC</sub>
Maximum continuous operating voltage:	$U_c$	220V <sub>AC, DC</sub>
Nominal discharge current for line C2 10kV(1,2/50μs) / 5kA(8/20μs):	$I_n(C2)$	5kA
Total C2 nominal discharge current 10kV(1,2/50μs) / 5kA(8/20μs):		20kA
Protection level for 1,2/50μs wave:	$U_p$	250V
Protection level at $I_n$ (8/20μs):	$U_p(I_n)$	330V
Maximum working current:	$I_L$	360mA
Resistance (series):	$R_s$	15Ω
Response time:	$t_r$	< 10ns
Working temperature:	$\vartheta$	-40°C to +70°C
SPD location:		Indoor
Type of connection:		Series (two ports)
Number of poles:		4
Dimensions:		13,5 x 90 x 80mm (0,75 mod. DIN43880)
Fixing:		DIN rail
Enclosure material:		Polyamide
Enclosure protection:		IP20
Insulation resistance:		> 10 <sup>14</sup> Ω
Autoextinguish enclosure:		V-0 Type according to UNE-EN 60707 (UL94)
Connections:		Maximum section 4mm <sup>2</sup>
Certificated tests according to: IEC 61643-21, EN 61643-21		
Complies with requirements of: UL 1449		
Relevant standards: UNE 21186, NFC 17102, IEC 62305		

### Accessories



- AT-9107: ATFONO Mod.: 220V telephone lines

### Dimensions

