

## INDIVIDUAL PROTECTOR FOR DATA LINES TYPE DB9

### ATDB9

**AT-2300 ATDB9:**  
*Individual protector with connector type DB9 for data lines.*



### Installation

Protection should be done **as close as possible to the equipment**. A SUB-D9 connector has 9 wires. The ATDB9 protects in series this 9 wires. In case where two equipments located in **separated buildings but linked together** are to be protected, protection must be installed in both sides of the line.

The recommended installation procedure is as it follows:

1. Insert the protector between the communication cable with connector DB9 and the equipment to protect.
2. Bond the protector to the ground through a connector type "faston" supplied.



ATDB9 SPDs are specially designed **to avoid failures in data transfer between equipments with connectors type DB9 or SUB-D9**.

They are specially design for communications type RS-232, RS-485, TTL and buses type **Profibus, Can, I2C and SPI**

ATDB9 is a screened protector with **SUB-D9 input and output connectors**, with a withstanding current of 2kA for each line.

ATDB9 have 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 10Ω. 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.

## AT23 - ATDB9 Series

### Technical Datasheet

Reference		ATDB9 AT-2300
Nominal voltage:	$U_n$	12V <sub>DC</sub>
Maximum continuous operating voltage:	$U_c$	15V <sub>DC</sub>
Nominal discharge current for line C2 4kV(1,2/50μs) / 2kA(8/20μs):	$I_n(C2)$	2kA
Protection level:	$U_p$	80V
Maximum working current:	$I_L$	300mA
Series resistance:	$R_s$	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 wires protected:		9 wire
Dimensions:		68 x 47 x 30mm
Enclosure material:		Aluminium
Enclosure protection:		IP20
Input / Output connector:		DB9 / DB9
Earthing:		6mm Faston
Certificated tests according to: IEC 61643-21, EN 61643-21		
Complies with requirements of: UL 1449		
Relevant standards: UNE 21186, NFC 17102, IEC 62305		

### Dimensions

