



> PROTECTION FOR DATA AND TELECOMMUNICATION LINES

> ATDB9 SERIES

> ATDB9

Individual overvoltage protector for type DB9 data lines



> AT-2300 ATDB9: individual protector with DB9 type connector for data lines.

ATDB9 protectors are especially designed to prevent failures in data transfer between equipment with type DB9 or SUB-D9 connectors.

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

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

ATDB9 have been tested in official and independent laboratories, obtaining their characteristics according to relevant standards (shown in the table).

> INSTALLATION

It is recommended that installation is carried out as close as possible to the equipment. SUB-D9 connector has 9 wires. The ATDB9 protects these 9 wires in series.

If there are two pieces of equipment located in separate buildings but linked together, the protection must be installed on both sides of the line.

The recommended procedure for installation is the following:

- 1 Insert the protector between the communication cable with DB9 connector and the equipment to be protected.
- 2 Bond the protector to the ground using the 'faston' type connector provided.



Connection to earth is a must. Earthing in the whole installation must be bonded either directly or by a spark gap and resistance should be lower than 10 $\Omega.$ If the indications on this datasheet are not fulfilled during use or installation of the protectors, the protection provided by this device could be compromised.







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> TECHNICAL DATASHEET

Reference:		AT-2300
Nominal voltage:	Un	12 V _{DC}
Maximum continuous operating voltage:	U _c	15 V _{DC}
Nominal discharge current per line C2 4 kV (1.2/50 $\mu s)$ / 2 kA (8/20 $\mu s)$:	I _n (C2)	2 kA
Protection level:	Up	80 V
Maximum operating current:	I,	300 mA
Series resistance:	R _s	15 Ω
Response time:	t,	< 10 ns
Working temperature:	9	-40 °C to +70 °C
Protector location:		Indoor
Type of connection:		Series (two ports)
No. of wires protected:		9 wires
Dimensions:		68 x 47 x 30 mm
Enclosure material:		Aluminium
Enclosure protection:		IP20
Input / output connector:		DB9 / DB9
Earthing system:		6 mm faston
Certificated tests according to: UNE-EN 61643-21 Relevant standards: UNE 21186, NF C 17-102, IEC 62305		

