

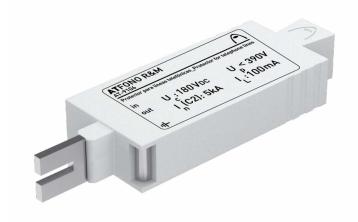


> PROTECTION FOR DATA AND TELECOMMUNICATION LINES

> ATFONO SERIES

> ATFONO KRONE / R&M

Protector for telephone lines for KRONE or Reichle & De-Massari connections with earthing terminal



- > AT-9105 ATFONO R&M1: coordinated protection for telephone lines connected to Reichle & De-Massari connections.
- > AT-9106 ATFONO R&M2: tight protection for telephone lines with Reichle & De-Massari connections.
- > AT-9109 ATFONO KRONE: coordinated protection for telephone lines connected to Reichle & De-Massari connections.

This is a modular and removable plug-in protector, able to withstand nominal discharge nominal currents of 5 kA for each line.

- > Protection for telephone lines and also for the digital and analogical equipment connected to these lines (fax, modem, etc).
- > Compact, removable and small in size.
- In normal conditions, it remains inactive without affecting line operation or producing any leakages.
- Discharge takes place in an internal encapsulated element with no external flash.
- > Very fast response time.
- It has a testing system in the front part to check the protector's status.
- The earthing system is introduced through a slot connected to the earthing terminal tab of the Reichle & De-Massari or Krone connection.

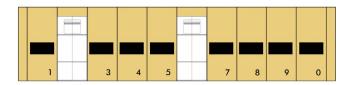
This protector has been tested in **official and independent laboratories**, obtaining their characteristics according to relevant standards (shown in the table).

Effective protection for telephone lines with KRONE or Reichle & De-Massari connections in modules with medium and tight coordinated protection for 1 pair of wires.

> INSTALLATION

ATFONO R&M / KRONE is to be installed **in series** with the telephone line, on the input connection line, always respecting the indications from the telephone company.

When the 2 devices to be protected are placed in **different buildings** and **interlinked**, protectors should be placed on both sides of the line.





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:		ATFONO R&M1 AT-9105	ATFONO R&M2 AT-9106	ATFONO KRONE AT-9109
Nominal voltage:	U _n	110 V _{DC}		
Maximum continuous operating voltage:	U _c	180 V _{DC}		
Nominal discharge current (8/20 µs wave):	I _n	5 kA	100 A	5 kA
Protection level for I _n (8/20 µs wave):	Up	390 V		300 V
Maximum operating current:	IL	100 mA		
Response time:	t,	< 10 ns		
Working temperature:	в	-40 °C to +70 °C		
Protector location:		Indoor		
Type of connection:		Series (two ports)		
No. of pairs protected:		1 pair		
Dimensions:		58 x 21 x 10 mm		
Enclosure material:		Polyamide		
Enclosure protection:		IP20		
Insulation resistance:		> 10 ¹⁴ Ω		
Self-extinguishing enclosure:		V-0 Type according to UNE-EN 60707 (UL94)		

Certificated tests according to: UNE-EN 61643-21 Relevant standards: UNE 21186, NF C 17-102, IEC 62305

> DIMENSIONS (MM)

