

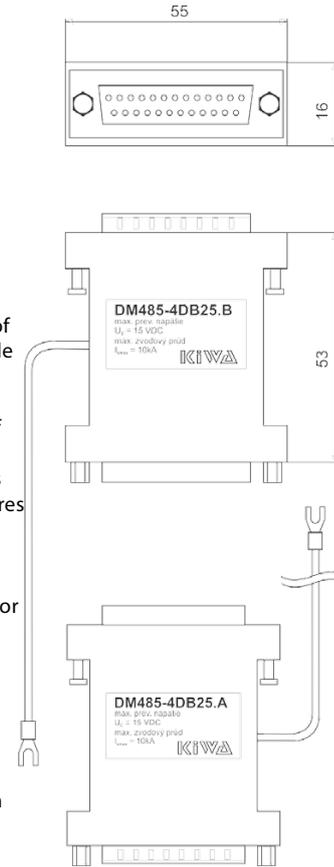


The DM485-4DB25 overvoltage protection module is designed to protect the of electrical equipment using the RS-485 and RS-422 data interface. The module is suitable for use in lightning protection zone LPZ 1 (within buildings)

The protective effect of overvoltage module is achieved by the combination of coarse and fine overvoltage protection. The coarse protection is provided by spark gaps, fine protection by a circuit with fast suppression diodes. It protects against symmetrical and asymmetrical overvoltage surges (between wires / wires and the earth).

The module is equipped with a D-SUB25 junction connectors. The connection of the modul is realised straight to the input connector of protected interface, or is connected to it with short connecting cable.

The condition for achievement of the full protective effect is to connect the green-yellow conductor of the module to the source of earth potential. In case that the protected equipment is a device of class I, then the fully complying source of the earth potential is the frame of equipment. In case that the protected equipment is a device class II or class III, then the green-yellow conductor shall be connected to the earth rail of the equipotential distribution of the building or to the PE (PEN) rail of the main distribution.



TECHNICAL PARAMETERS

Nominal discharge current (8/20)			
line - line, line - GND	I_n	2,5 kA	
PE - GND	I_n	2,5 kA	
Max. discharge current (8/20)			
line - line, line - GDN	I_{max}	5 kA	
PE - GDN	I_{max}	5 kA	
lines together - GDN	I_{max}	10 kA	
Nominal voltage	U_n	12 V=	
Max. operating voltage	U_c	15 V=	
Voltage protection level (at I_{max})			
line - line, line - GND	U_p	≤ 35 V	
PE - GDN	U_p	≤ 650 V	
Inserted impedance		10 Ω	
Baud rate		10 Mbit/s	
Response time	t_A	≤ 1 ns	

CONNECTION

DM485-4DB25.A		DM485-4DB25.B	
input	output	input	output
D-Sub25F	D-Sub25M	D-Sub25M	D-Sub25F

Protection earth	30 cm yellow-green wire with M4 forked terminal*
protected lines	1, 2, 3, 4

* alternative lengths of wire, or alternative terminals on demand

PRODUCT SPECIFICATION

TYPE	Order number
DM485-4DB25.A	94.020
DM485-4DB25.B	94.021