

DFRS: RS232 serial interface module

DFRS module allows interfacing the bus **Domino** to a Personal Computer through the RS232 serial port. Equipping the PC with a specific program provided by **DUEMMEGI** (free of charge), named *BDTools*, it is possible to an easy and fast setting up of the installation.

BDTools support program allows to perform many functions, as the module addressing, the programming of the plant function, reading and editing the operating program, etc.; *BDTools* provides the on line help, thus refer to it for more details.

DFRS module allows to realize a simple supervision systems by a PC equipped with proper programs; in this way it is possible to monitor and control the operating status of the installation by means of graphical maps.

DFRS housing is a standard DIN 3M module and it provides a 2-pole terminal block for the connection to the bus (+ and -); as all modules of **Domino** family, the power supply for the module operation is carried by the bus itself.

A DB9 connector on the front panel allows the RS232 connection to the PC; a green LED (ON) monitors the power on condition and two LEDs (TX yellow and RS red) flash during the communication between DFRS module and the PC. RS232 lines are electrically insulated from the **Domino** bus.

The signals on DB9 connector are replied at the 5-pole terminal block (terminals 1 to 5); this will be useful when requiring a permanent connection between DFRS module and the PC (e.g. supervisor system) and the front panel connector, for this application, is too much uncomfortable (for instance when DFRS module is installed into a wall mounted box).

It is possible to connect, in the same plant, more than one DFRS module; in this case, however, only one interface at a time may be connected to the PC.

On the contrary of the majority of other **Domino** modules, DFRS interface does not require any address.

Module connection

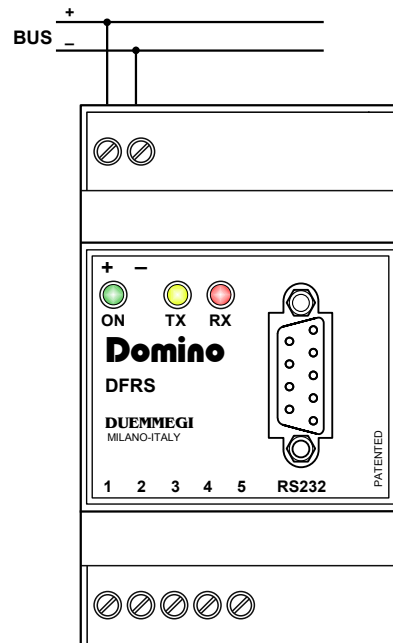
DFRS module allows the connection between **Domino** bus and RS232 serial port of a PC by a standard pin to pin 9-pole cable, shipped together the module itself; following figure shows the proper connections to be made.



When using 5-pole terminal block to connect the PC instead of the front panel connector, then a proper cable has to be self-made.

At one side of this cable, connect a female DB9 connector and at the other side connect directly to the DFRS interface terminal block as listed in the following table.

Cable from term. block to DB9 connector	
Terminal number	DB9 connector pin number
1	2
2	3
3	7
4	4
5	5



Technical characteristics

Power supply (bus side)	By specific centralized power supply mod. DFPW2
Interface	RS232 slave, electrically insulated from the bus
Housing	Standard DIN 3M for DIN rail
Operating temperature	-5 ÷ +50 °C
Storage temperature	-20 ÷ +70 °C
Protection degree	IP20

Outline dimensions

