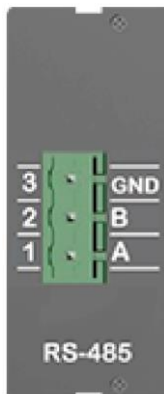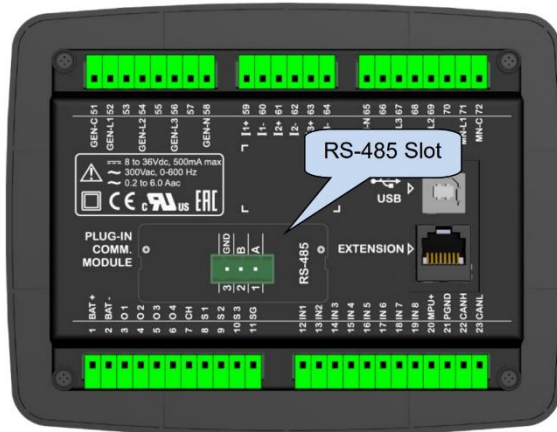# RS-485 INTERFACE PLUG-IN MODULE

This RS-485 interface module is specially designed for Datakom D-100,200,300 MK2 controller series. And can be used for generator remote monitoring and control purposes via wire connection.

The device offers the advantage of being internally powered and is fully compatible with the unit. It does not require any special setup.

Module view: D-300 MK2 Controller rear view:

Structure: RS-485, isolated.
Connection: 3 wires (A-B-GND). Half duplex.
Baud rate: 2400-115200 bauds, selectable
Data type: 8 bit data, no parity, 1 bit stop
Termination: External 120 ohms required
Isolation: 250VAC, 1 minute
Common mode voltage: -0.5 VDC to +7VDC, internally clamped by transient suppressors.
Max distance: 1200m @ 9600 bauds (with 120 ohms balanced cable)

The RS-485 port features MODBUS-RTU protocol. Multiple modules (up to 128) can be paralleled on the same RS-485 bus for data transfer to automation or building management systems.

> ⚠ **The Modbus register list is available at Datakom technical support.**

The RS-485 port provides also a good solution for distant PC connection where RainbowPlus program will enable programming, control and monitoring.

> ⚠ **For more details about programming, control and monitoring through RS-485 port please refer to RainbowPlus user manual.**