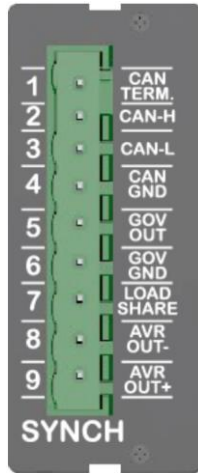


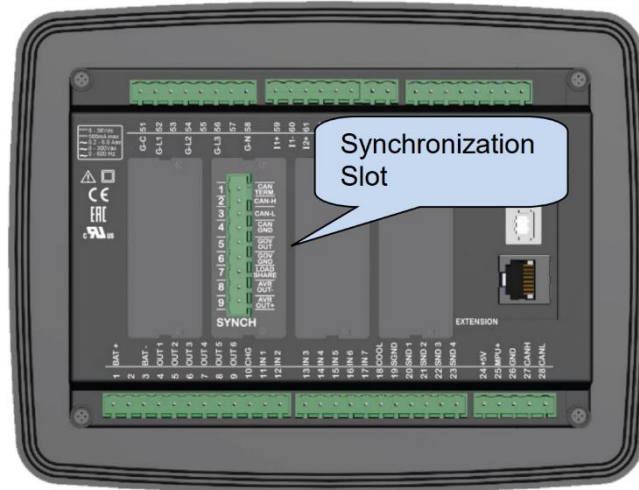
SYNCHRONIZATION PLUG-IN MODULE

This synchronization module is specially designed for Datakom D-500, 700 MK2 controllers. It includes all necessary functionality for generator synchronization purposes.

Module view:



D-500 MK2 Controller rear view:



1. ANALOG AVR CONTROL OUTPUT

Structure: Isolated analog output, ± 3 VDC

Connection: 2 wires

Output Impedance: 270 ohms

Isolation Voltage: 1000 VAC, 1 minute

Precision: 12 bits

Rest point: Adjustable through program parameter

Sweep Range: Adjustable through program parameter

2. ANALOG GOVERNOR CONTROL OUTPUT

Structure: Isolated analog output, 0-10 VDC

Reference: Battery negative

Output Impedance: 1000 ohms

Precision: 12 bits

Rest point: Adjustable through program parameter

Sweep Range: Adjustable through program parameter

3. DATALINK-CANBUS PORT

Structure: CANBUS, isolated.

Connection: 4 wires (DATALINK-H, DATALINK-L, GND, TERMINATION).

Data rate: 250 kbps standard (adjustable between 50 and 500 kbps)

Termination: 120 ohms resistor internally connected to DATALINK-H. The TERMINATION is to be connected to DATALINK-L in order to terminate the Datalink bus.

Isolation voltage: 1000 VAC, 1 minute

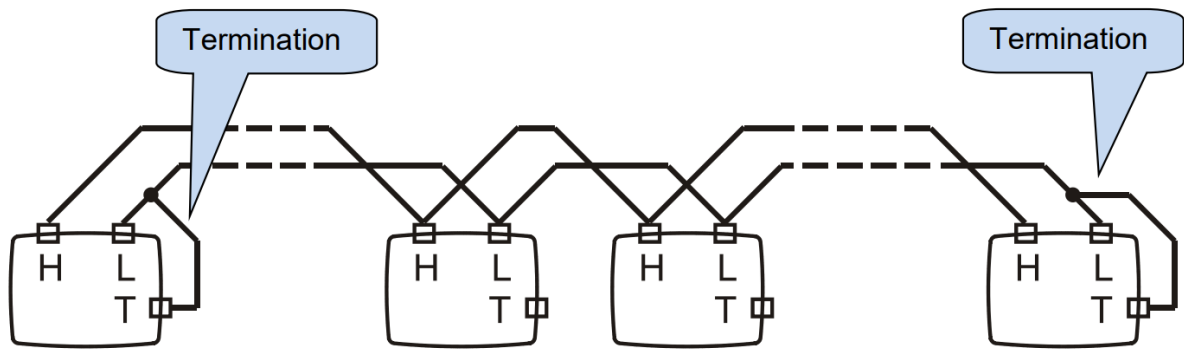
Common mode voltage: -0.5 VDC to +15 VDC, internally clamped by transient suppressors.

Max distance: 200m with 120 ohm balanced cable

IMPORTANT NOTES:

The Datalink cable shield should be grounded from one end only.

The Datalink bus should be terminated from both ends:



4. ANALOG LOAD SHARE SIGNAL

Structure: Non-isolated analog input & output, 0-10 VDC

Reference: Battery negative

Output Impedance: 1000 ohms

Precision: 12 bits

Rest point: Adjustable through program parameter

Sweep Range: Adjustable through program parameter