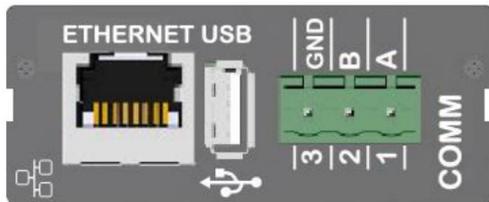


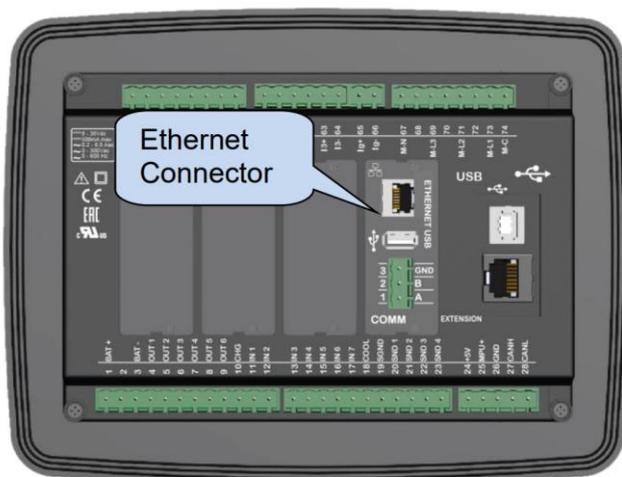
## COMM PLUG-IN MODULE with Ethernet, RS-485 and USB Host

This COMM module is specially designed for Datakom D-500, 700 MK2 controllers. It includes 3 additional communication interfaces that can be necessary for various purposes.

Module view:



### 1. ETHERNET PORT



**Description:** IEEE802.3 compliant, 10/100 Base-TX RJ45 Ethernet port with indicating leds

**Data rate:** 10/100 Mbits/s, auto detecting

**Connector:** RJ45

**Cable type:** CAT5 or CAT6

**Isolation:** 1500 VAC, 1 minute

**Max distance:** 100m with CAT5 or CAT6 cable

**Functionality:** Embedded TCP/IP, Web Server, Web Client, SMTP, e-mail, SNMP, Modbus TCP\_IP

#### **LED FUNCTIONS:**

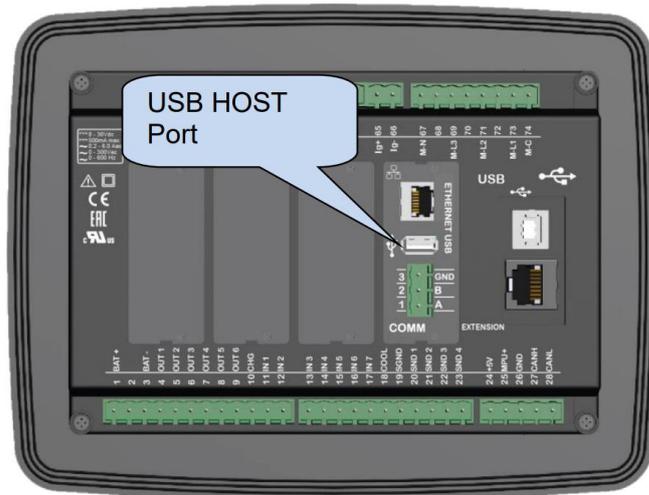
**GREEN:** This led turns on when the ethernet link is established (connector inserted)

**YELLOW:** This led blinks when data transfer occurs inwards or outwards. Periodic blinking will witness data flow.

## 2. USB HOST PORT



USB FLASH MEMORY



- Description:** USB 2.0, not isolated
- Power Supply Output:** 5V, 300mA max
- Data rate:** Full Speed 1.5/12 Mbits/s, auto detecting
- Connector:** USB-A (PC type connector)
- Cable length:** Max 1.5m
- Functionality:** USB memory, FAT32, data recording
- Memory capacity:** All USB flash memories.

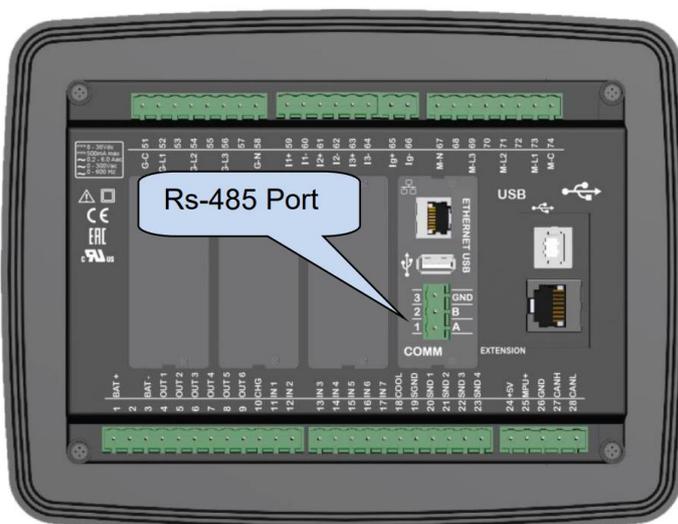
The USB-Host port is designed for detailed data recording. The period of recording is adjustable through program parameter.

As soon as a USB flash memory is inserted, the unit will start data recording and continue until the memory is removed.

For more details about data recording please review chapter “Data Recording”.

**Warning:** If USB-Device is plugged, the USB-Host port will not function.

## 3. RS-485 PORT



**Structure:** RS-485

**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 upon request.

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 via RS-485 port, please refer to Rainbow Plus application user manual document.