

HUB-RS485

SAFETY INFORMATION

- This manual forms an integral part of the product and must be kept near the device for quick and easy consultation.
- The instrument must not be used for purposes other than those described below, and it especially cannot be used as a safety device.
- Dixell S.r.l. reserves the right to vary the composition of its products without giving prior notice to the customer, ensuring the identical and unchanged features of the same.
- In case of malfunction or failure, contact the dealer or "Dixell s.r.l." along with a detailed description of the problem.
- The instrument must never be opened.
- Before proceeding, check the application limits and the correct power supply voltage.
- Do not expose the unit to water or moisture: use the controller only within the established operating limits avoiding sudden temperature changes with high atmospheric humidity to prevent the formation of condensation.
- Caution: before starting any maintenance, disconnect the equipment for the electrical network.
- Ensure that the cables of the serials and the power supply are separated and far enough from each other, without crossing or intertwining.

OVERVIEW

HUB-RS485 is a RS-485 hub / splitter / repeater that can be used for expanding RS-485 networks by dividing one RS-485 line into six lines, each a maximum of 1000 metres long.

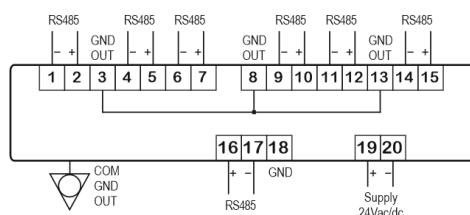
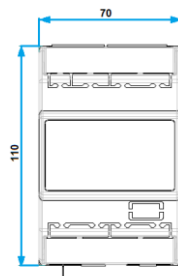
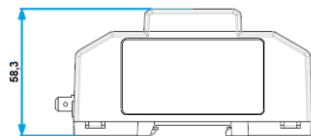
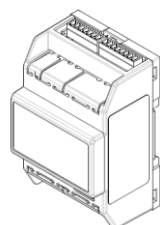
The data coming from the RS-485 input are sent to all six lines. Nevertheless, each line of RS-485 devices retransmits data only to the input, thereby reducing any possible interference between each line of RS-485 devices.

The communication problems on a single line have no repercussions on the other lines, making the RS-485 networks more robust and reliable.

The product features opto-isolation, that effectively protects the RS-485 devices from earth currents, transitory overvoltages, remote lightning and voltage peaks. Opto-isolation also eliminates mass sharing between input and outputs and noise issues.

The unit supports a data speed of up to 115.200 bps and automatic data format detection, accordingly, DIP switches or jumpers are not necessary.

TECHNICAL FEATURES

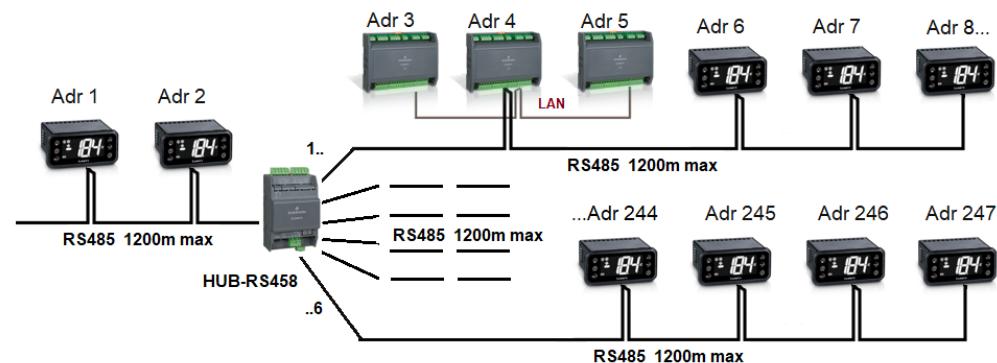


Manuals on the Dixell site:



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CONNECTION WIRING DIAGRAM



FEATURES	DESCRIPTION
Housing	Self-extinguishing PC-ABS
Dimensions	Front panel 70x135; depth 60mm
Mounting device	On standard DIN rail
Degree of protection	NEMA (UL 50e) IP10 Indoor use, Open Type
Power supply	24Vac/dc $\pm 15\%$
Rated power	2.0 W
LED	Tx-Rx data transmission indication LED on the input line
Terminal blocks	Disconnectable terminals, with cable gauge between 0.2 and 1.5 mm ²
Pollution degree	2
Ambient operating temperature/Humidity	-10T60°C; 20-85 rH% (with the presence of humidity without condensation)
Shipping and storage temperature	-40T85°C; 20-85 rH% (with the presence of humidity without condensation)
Resistance to heat and fire	UL 94 V-0
Serial Inputs-Outputs	Standard RS485 available on a 3-pin input port (Tx-Rx-GND) and 6-pin output; maximum cable length = 1200m up to 19200 bps. Maximum 247 devices with driver 1/8 load
Termination-Polarisation Resistances	Integrated
Purpose of control	RS485 line branching and amplification device
Construction of control	Operating control, intended to be used in Class I equipment
Approvals	CE

LUMITY



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