

User manual

DNB-200

Passive 1-WIRE Bus Splitter



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1. GENERAL INFORMATION

Thank you for your purchase of CEL-MAR Company product. This product has been completely tested and is covered by two year warranty on parts and operation from date of sale.

If any questions or problems arise during installation or use of this product, please do not hesitate to contact Technical Support at +48 41 362-12-46 or e-mail support@cel-mar.pl.

1.1. WARRANTED INFORMATION

CEL-MAR Company gives the two year guarantee on the **DNB-200 splitter**. In case of being damaged it will be repair or the damaged component will be replace. The warranty does not cover damage caused from improper use, materials consumption or any unauthorized changes. If the product does not function (is damaged), or not operate in accordance with the instructions, will be repaired.

All warranty and no warranty repairs must be returned with paid transport and insuring to the **CEL-MAR Company**.

CEL-MAR Company under no circumstances won't be responsible for ensuing damage from improper using the product or as a result of random causes: the lightning discharge, the flood, the fire and the like.

CEL-MAR Company is not be held responsible for damages and loss including: loss of profits, loss of data, pecuniary losses ensuing from using or the impossibility of using this product.

In specific cases **CEL-MAR Company** discontinue all warranties and in particular do not follow the user manual and do not accept terms of warranty by the user.

1.2. GENERAL CONDITIONS FOR SAFE USE

The device should be installed in a safe and stable places, the powering cable should be arranged so as not to be exposed to trampling, attaching, or pulling out of the circuit.

Do not put device on the wet surface.

Do not connect devices for nondescript powering sources,

Do not damage or crush powering wires.

Do not make connection with wet hands.

Do not adapt, open or make holes in casings of the device!

Do not immerse device in water or no other liquid.

Do not put the fire opened on device sources: candles, an oil lamps and the like.

1.3. ENVIRONMENTAL PRESERVATION



This sign on the device inform about putting expended device with other waste materials. Device should send to the recycling. (In accordance with the act about the Electronic Appliance Expended from day 29 of July 2005)

1.4. SERVICE AND MAINTENANCE

It is recommended to check the status of modular sockets and the sensors connecting cables, to eliminate the influence of mechanical damage on the quality of measurement .

Technical support is available at number +48 41 362-12-46 in 8.00-16.00, from Monday to Friday or e-mail support@cel-mar.pl.

2. SOLUTIONS

Splitter DNB-200 is used to for connection of digital sensors as: DTS-103, DTS-107 to remote multi-point measurement temperature system in:

- rooms with structured cabling,
- automation cubicles,
- data communication cubicles,
- devices,
- and outside temperature via the serial bus 1-WIRE.

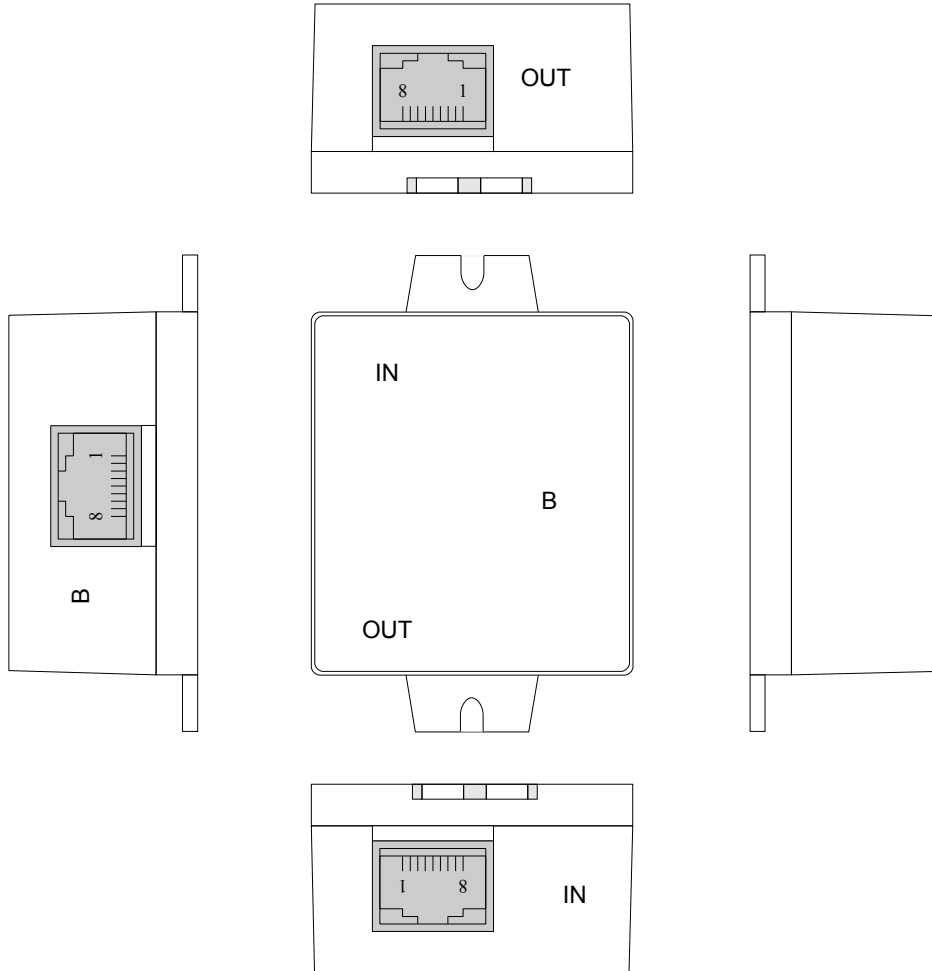
Application of 1-Wire bus enables:

- the cooperation of many sensors connected to the same data lines,
- the deployment of sensors in various locations up to 260m,
- powering the sensors from the bus,
- guarantee the correct transmission of measurement data secure checksum CRC

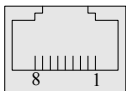
3. SPECIFICATIONS

<i>Parameters</i>	<i>Data</i>
Casing material	Polystyrene
Operating temperature	from -30°C to +70°C
Degree of protection	IP20
Dimensions	50,2 x 40,2 x 20,6 mm
Weight	0,05 kg
Storage and transport	
outdoor temperature	-30 ÷ +70°C
Relative air humidity	5 ÷ 95% - noncondensing

4. VIEW



5. SIGNALS ON THE PINS OF MODULAR SOCKET – FOR RJ45 CONNECTOR

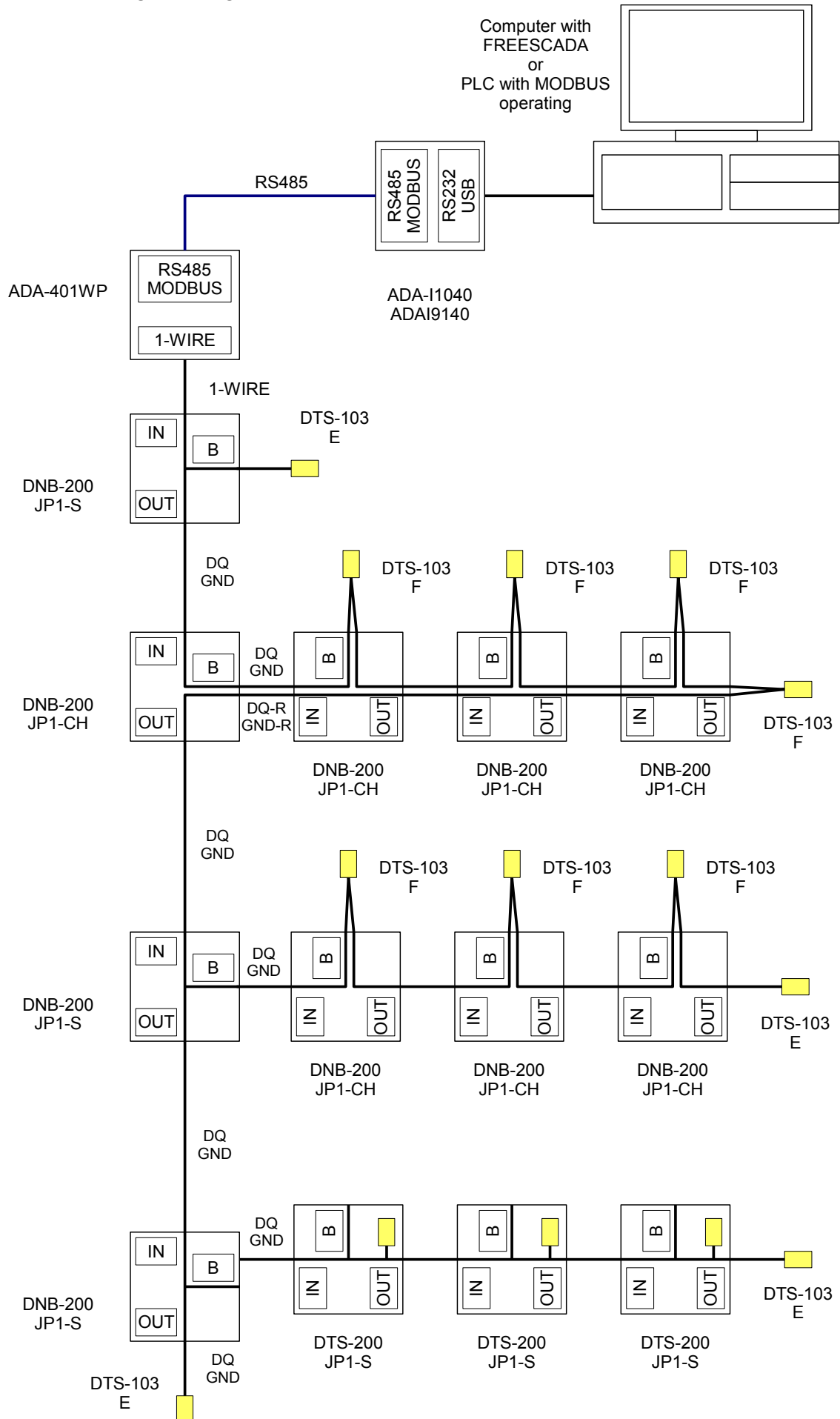


1. GND-R – GND return (RJ45/8WIRE cable – white-orange)
2. DQ-R – DQ return (RJ45/8WIRE cable - orange)
3. VDD – power +5VDC (RJ45/8WIRE cable - white-green)
4. DQ – data line (RJ45/8WIRE cable - blue)
5. GND – ground line (RJ45/8WIRE cable - white-blue)
6. NW - not use (RJ45/8WIRE cable - green)
7. NW - not use (RJ45/8WIRE cable - white-brown)
8. NW - not use (RJ45/8WIRE cable - brown)

6. JP-1 JUMPERS

Setting of JP-1 jumpers	Type of connection	Topology
 S CH JP-1	Star type connection	
 S CH JP-1	Chain type connection	

7. EXAMPLE CONNECTION



Dear Customer,

Thank you for purchasing **CEL-MAR Company** product.

We hope that this user manual help simplify your network of 1-Wire sensor for industrial applications. We also wish to remind you that CEL-MAR Company are a manufacturer of the widest selections of data communications products in the world in applications such as: data transmission converters in RS232, RS485, RS422, USB, Current Loop, Fibre-Optic and Ethernet Converters and many others.

We welcome your feedback so please contact us to tell how you like our products and how we can satisfy you present and future needs.

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