



Approved
КД.ЭЛХТ-ПР05-1-ЛУ



CONTROL DEVICE

ELHART

PASSPORT

**Load cell signal converter
EWM series**

КД.ЭЛХТ-ПР05 ПС (revision 1)

1. Purpose of the product

The load cell signal converter (hereinafter referred to as the converter) is designed to convert signals from bridge strain load cell sensors proportional to the deforming forces applied to them into digital data available for reading via the RS-485 communication interface using the Modbus RTU protocol or into unified analog current and voltage signals.

Converter **EWM-D2-RS** – is equipped with the RS-485 communication interface for transferring the converted values.

Converter **EWM-D2-C** – is equipped with the analog output for relaying converted values.

Primary transducers (load cell sensors) are not included in the contents of delivery.

2. Specifications

Permissible ambient operating temperature	-20...+50 °C
Permissible relative humidity, no more	80 % (without condensation)

Other technical characteristics are specified in the operation manual* (hereinafter - OM) and the short user manual (hereinafter - SUM) attached to this passport.

* - electronic version of the OM is available on the manufacturer's website: elhart.ru

3. Contents of delivery

Converter	1 piece
Passport	1 piece
Short user manual	1 piece

4. Operating rules

Read the manual before using the converter. Connection, adjustment and maintenance of the converter must be carried out only by qualified specialists who have studied the manual.

During operation and maintenance, it is necessary to comply with the requirements of the OM, "Rules for the technical operation of electrical installations of consumers", "Rules for labor protection during the operation of electrical installations" and other rules, standards, regulations adopted for execution at the enterprise.

The converter is mounted according to the diagrams given in the OM and SUM. Before turning on the converter, make sure that all connections are made correctly and that power and signal wires are not mixed up. Otherwise, severe damage to the converter and personal injury may occur.



WARNING! It is forbidden to open the converter, touch the power terminals without making sure that there is no supply voltage.

The converter housing does NOT PROVIDE protection against ingress of solid particles and ingress of moisture, water (IP20).



WARNING! It is not allowed to get moisture, water on the internal elements of the converter and terminals connection!

The converter must be installed in a place protected from moisture, water drops, dust, corrosive substances, as well as high temperatures, electrical discharges, vibrations.



WARNING! It is forbidden to use the converter in aggressive environments containing vapor of acid, alkali and other aggressive substances!



WARNING! It is forbidden to use the converter in explosive environments!

5. Transportation and storage

Transportation and storage of the converter is carried out in individual factory packaging at ambient temperature from minus 20 to plus 50 °C and relative air humidity from 0 to 80% (without condensation), with the package protected from atmospheric precipitation. The device must be stored for no more than 5 years.

Do not store the converter in rooms containing aggressive gases and other harmful impurities (acids, alkalis).

6. Packing information

The converter is packed in a corrugated cardboard container.

The date of production and packaging is indicated on the label in the passport.

7. Product acceptance

The converter complies with technical specifications КД.ЭЛХТ-ПР05 ТУ (the company standard for the converter manufacturing) and recognized as serviceable.

8. Disposal

At the end of its service life, the converter must be dismantled and disposed of. The disposal procedure is determined by the organization operating the converter. When disposing of converter, it is recommended to comply with the requirements of the current legislation in the field of electrical and electronic products waste.

9. Warranty obligations

Warranty period of operation - 36 months from the date of sale**.

The manufacturer guarantees that the converter complies with the technical specifications provided that the consumer observes the converter handling rules (conditions for transportation, storage, installation, operation and maintenance) set out in this passport and the OM.

In case of failure of the device during the warranty period, provided that the consumer observes the handling rules, the manufacturer undertakes to repair or replace it free of charge. To do this, you need to deliver the converter to the Service Center located at the address: Krasnodar, Mitrofan Sedin street, 145/1 or to any other manufacturer service point. Current addresses of regional service points are available on the manufacturer's website: elhart.ru/support/repair.html

Warranty obligations are terminated in case there are traces of opening and manipulation of the internal components of the converter, the presence of chemical or mechanical damage, foreign objects, substances or moisture inside the case.

** - complies to the date of the shipping document (UPD) / cash receipt.

10. Certificates

The converter complies with the requirements of the Technical Regulations of the Customs Union TR CU 020/2011 "Electromagnetic compatibility of technical means", which ensures its safety for the life, health of the consumer, the environment and the prevention of harm to the consumer's property (in case the consumer observes the converter handling rules set out in this passport and OM).

Declaration of conformity (DoC):

EAЭC N RU Д-РУ.РА02.В.72401/22 of March 28, 2022

11. Manufacturer

ООО ELHART

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Service
maintenance



DoC in the register
of Federal Service
for Accreditation
(RusAccreditation)