

ARCOPT-05D07

TWO-FIBRE OPTICAL CONVERTER



Technical Description and User Manual

Version V1.0.2008

DOCUMENT VERSION CONTROL

version	date	author	changes made
V1.0.2007	26.03.2008	NOVL	Initial version

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ARCOPT-05D07

TWO-FIBRE OPTICAL CONVERTER

DESCRIPTION

1. APPLICATION

Optical converter ARCOPT-05D07 is designed for optical signal transformation to electrical and vice versa. Device work by two optical cables.

2. CONSTITUENT PARTS

2.1. *Optical converter ARCOPT – 05D07 (1 pcs.)*

2.1.1. Supply chain connecting plug MVSTB (1 pcs.)

2.1.2. Interface RS 232 connecting plug (1pcs.)

2.2. *Technical description (1 pcs.)*



Fig. 1 Optical converter ARCOPT-05D07

2.3. General requirements

After receiving of the kit, check assembly and components have not they been damaged during transportation.

For equipment and power connection use wires and cables only for this purpose.

3. TECHNICAL DATA

3.1. Optical parameters

- 3.1.1. Optical converter's ARCOPT-05D07 transmitter wavelength is 850nm and receiver wavelength is 850nm .
- 3.1.2. Optical cables: MM 50/125; MM 62.5/125.
- 3.1.3. Optical converter ARCOPT-05D07 works via two optical fibres (multi mode).
- 3.1.4. Connector type for ARCOPT-05D07 is ST.
- 3.1.5. Maximum distance is up to 4 km (with attenuation 1,0dB/km).

3.2. Elelectrical parameters

- 3.2.1. Optical converter ARCOPT-05D07 use interface RS-232 (DCE connector DB-9F) or connector MVSTB-3.
- 3.2.2. Max data transmission rate: up to 115 kbps.
- 3.2.3. Data transmission error is less than 10^{-9} .
- 3.2.4. Supplay voltage: 5-25V DC.
- 3.2.5. Consumption power ir less than 3VA.

3.3. *Physical parameters*

3.3.1. Dimensions: 23mm x 120mm x 102mm.

3.3.2. Weight: 130g.

3.3.3. Body: plastic (IP20).

3.3.4. Operating temperature: 0°C – 50°C.

3.3.5. Storage temperature: -30°C ÷ +60°C.

3.3.6. Relative humidity: up to 80%, at +25°C.

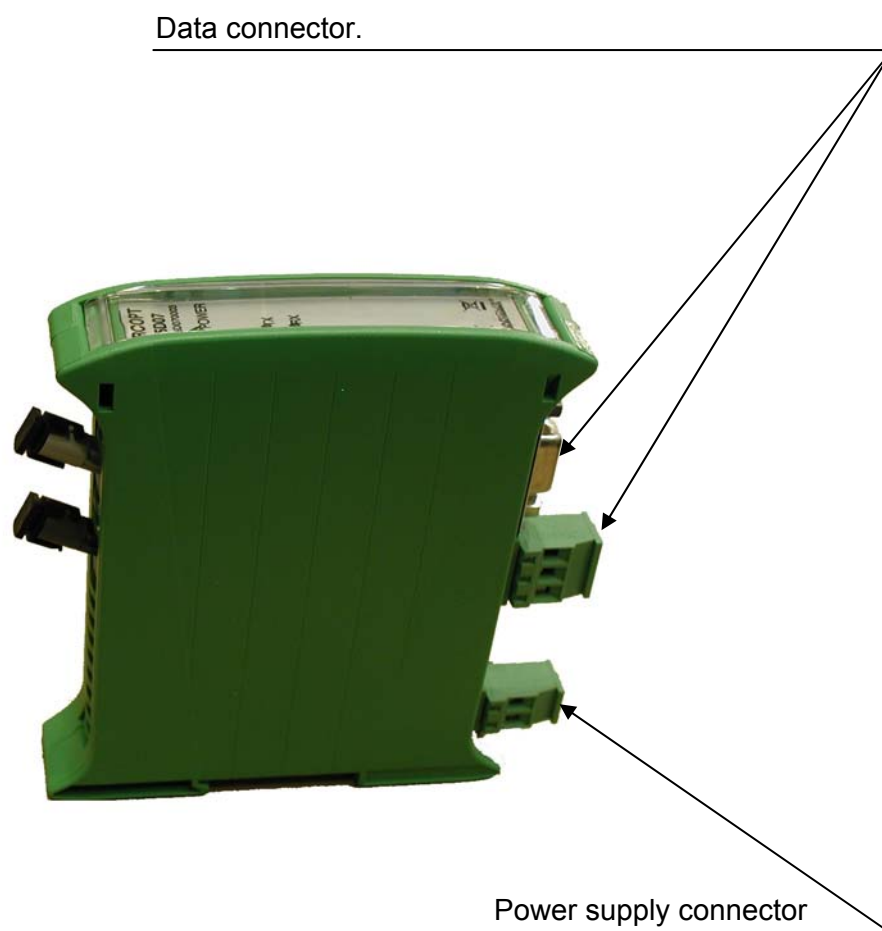
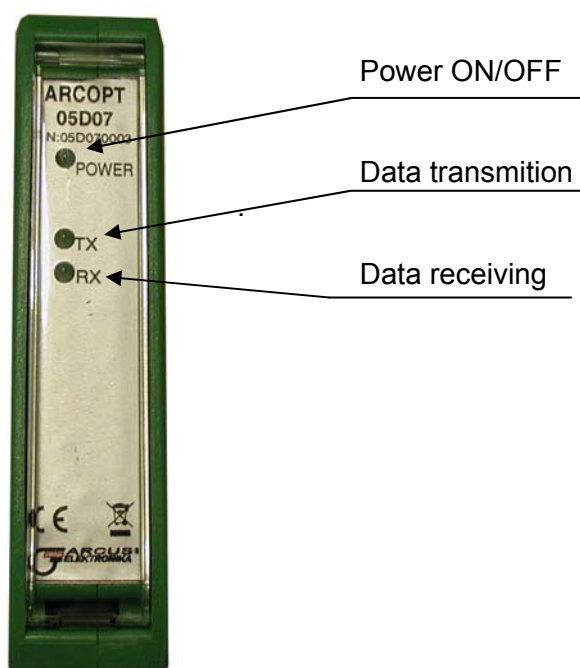
3.3.7. Atmosphere pressure: 84 ÷ 106 Kpa.

3.4. *Connection*

Connectors ST for optical fibres.



Fig. 2 Top panel.

**Fig. 3** Bottom panel.**Fig. 4** Front panel

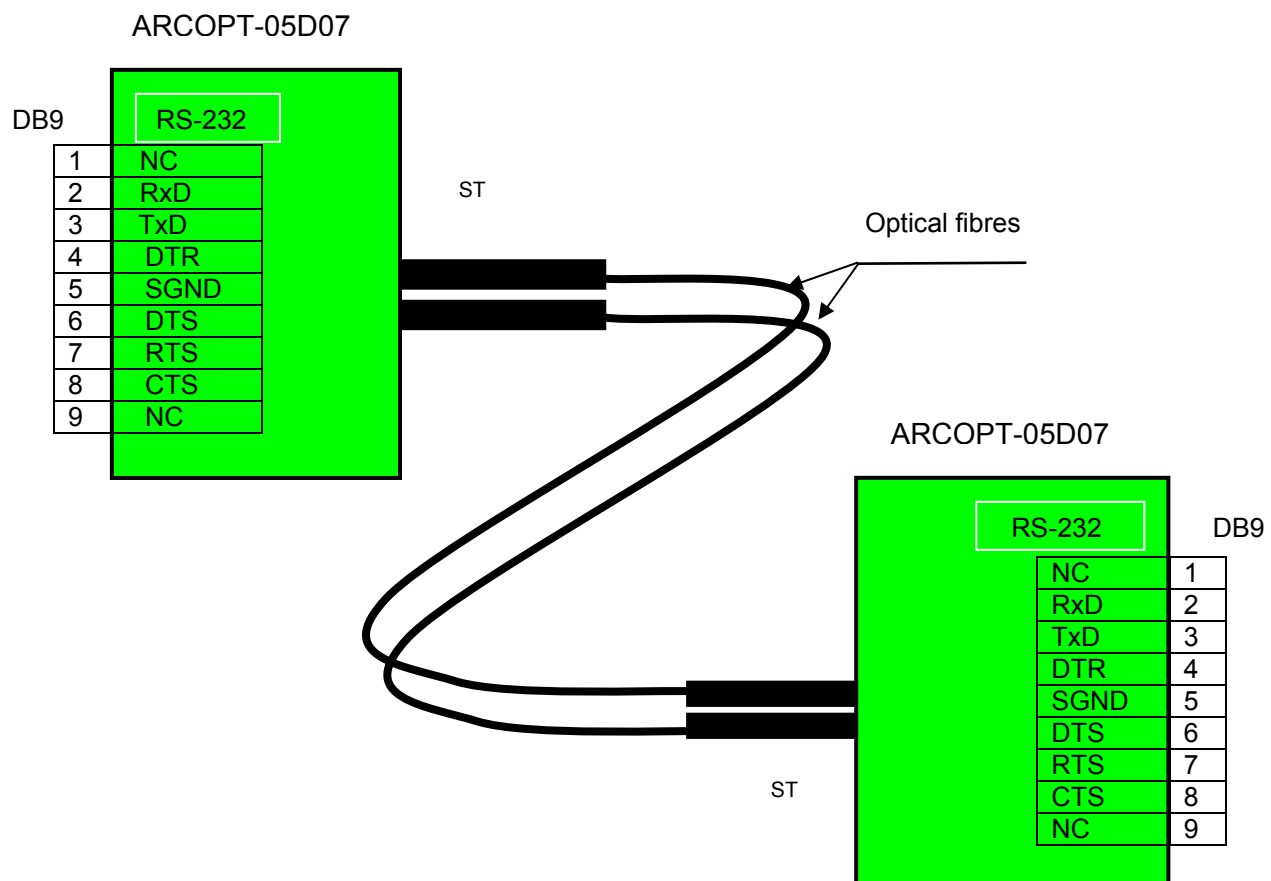


Fig. 5 Connection of ARCOPT-05D07.

4. WARRANTY TERMS

The warrantee repair of the device can be performed during the period of 24 months since the date it is sold only in cases when the origin of defect is related to the manufacturer – its work or the materials used. This warrantee loses its effect if the damage or operating troubleshooting is related to the non-observance of the user's instructions and manual, improper storage or transportation.

The warrantee and post-warrantee repair is performed by the manufacturer:

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