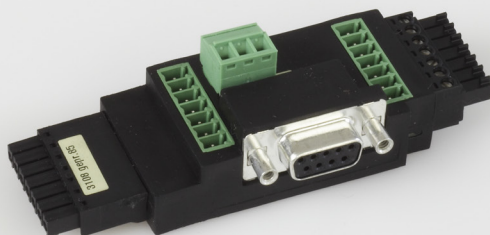




PC-INTERFACE RS 232

FOR THYRO-S AND THYRO-A

August 2014 2.000.000.845 DE/EN - V4



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1. NOTES TO THESE OPERATING INSTRUCTIONS

1.1 INFORMATION DUTY

The presented operations manual shall carefully be read by all persons deployed for work using and employing the PC-Interface RS232 (hereinafter called the "unit") prior to assembly and the initial start-up of the unit.

This operations manual is a part of the unit. The operator of the unit is committed to provide this operations manual to all persons without limitation, who transport the unit, start it up, maintain it, or perform other work tasks to it.

1.2 VALIDITY

This operations manual resembles the technical status of the unit at the time of publication. Advanced Energy reserves the right to implement content and technical changes in comparison to the information of these operating instructions.

1.3 LOSS OF GUARANTEE

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1.4 HANDLING

This operations manual is structured in a manner so that according expert personnel may perform all work necessary for commissioning, maintenance, and repair. Certain process steps are related to figures in order to clarify and to ease necessary work. If threats to personnel and material cannot be ruled out for certain work, such tasks are marked with a pictogram, from which the according content for safety regulations may be extracted.

2. INTRODUCTION

The following operating instructions merely serve as a supplement and apply only in connection with the operating instructions of the Advanced Energy power controllers Thyro-S and Thyro-A of types H1 and H RL1, as well as H RLP1. Particular attention must be paid to the safety instructions included in them.

3. DELIVERY COMPONENTS

The PC-Interface RS232 for Thyro-S / Thyro-A consists of the following components

- 1 x Interface module with interfaces for Thyro-A, Thyro-S as well as RS232,
- 1 x triple pole terminal,
- this operating manual.

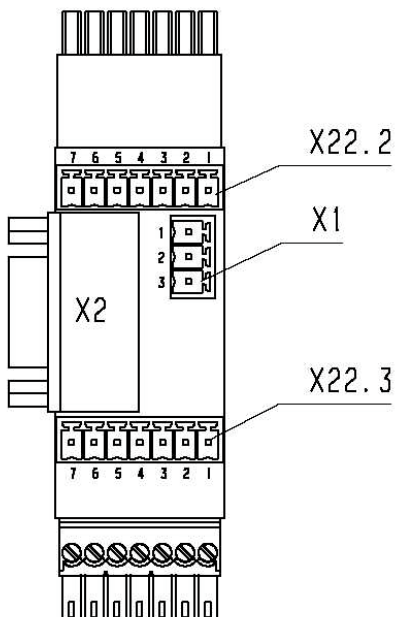
4. FEATURES

The PC-Interface RS232 for Thyro-S / Thyro-A is suitable to connect the above mentioned power controller to a personal computer. This point-to-point communication does not need an address for the power controller.

In combination with the software Thyro-Tool Family (Order-No. 2 000 000 380) visualization and commissioning functions are practicable. The power supply of the PC-Interface is possible via the interfaces (refer to remark in chapter 5).

5. CONNECTIONS

The PC-Interface connects the RS232 socket of a personal computer (9-pole Sub-D plug) with the socket of the internal interface of a power controller.



REMARK

The standard cable (with 9-pole Sub-D plug) must not be a zero-modem connection (cable does not have a cross). For the power supply the cable must contain the connections of pins 4 and 7 (handshake). For data transfer pins 2, 3 and 5 are necessary. In case of using a 3-wire connection, as well as using an interface without used pins 4 (DTR) and 7 (RTS), an additional 9-volt power supply is necessary. At the triple pole terminal X1.1 is to connect to +9 Volt (range 7.7V to 12.5V), and X1.3 is to connect to ground.



CAUTION

When plugging and taking off the PC-interface/plug, it is to be made certain, that the power controller is free of voltage (contact danger).

The existing connection at X 22 of the power controller has to be taken off and the interface has to be plugged on the unit. In addition the type plate shows the sides for Thyro-A and Thyro-S (the Thyro-S connection is also recognizable by the screws on the plug).

5.1 THYRO-S

The connection of the interface at Thyro-S corresponds to fig. 1. Then the free upper 7-pin row is intended for the plug that was before on the connection present (set point wiring). The plug is to put directly below the Thyro-S from left side on to the interface.



FIG. 1 THYRO-S

5.2 THYRO-A

The connection of the interface for Thyro-A 1A power controller corresponds to fig. 2, for Thyro-A 2A it corresponds to fig. 3. The connection of Thyro-A 3A is logically.

Then the free upper 7-pin pin row is intended for the plug that was before on the connection present (Thyro-A 2A: at least the slave connection). The plug is to put directly below the Thyro-A from right side on to the interface.



FIG. 2 THYRO-A 1A



FIG. 3 THYRO-A 2A

6. START-UP

After connection of the PC-Interface, the power supply of the power controller can be switched on and the Thyro-Tool Family can be started.

6.1 SET POINT PROCESSING USING PC-INTERFACE RS232

If a bridge is connected between the pins X1.2 and X1.3 on the PC-Interface (this corresponds to ground signal at pin 1 at Thyro-A, and ground signal at the pin 4 at Thyro-S), then the power controller processes as set point value only from the Thyro-Tool Family given value.

7. OTHER ACCESSORIES

- RS232 connection cable, length 5 m (Order-no. 0048764)
- Thyro-Tool Family, visualization- and commissioning-software (Order-no. 2.000.000.380)



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