Technical manual BA 0210

Water level

STK – RSC – 232

Interface converter universal

for connection of device interfaces RS485 and RS232
to COM interface RS232 with autodetect function

Connection to water level sensors Hydrolog 500 / 1000 / 3000

Connection to data remote transmission modules GSM-1000 and GSM-3000

Connection to hand-held terminal AM-1000

No auxiliary supply necessary

Transmission rates up to 57.600 Baud

ACS-CONTROL-SYSTEM
know how mit system

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1. Application

The device **STK-RSU-232** is used as linking part for the connection of device interfaces RS485 resp. RS232 to the COM interface RS232 of a PC.
By connecting an RS232-USB converter the connection to the USB port of a PC is also possible.

The device is conceived for connecting a PC to water level sensors Hydrolog 500 / 1000 / 3000 resp. to data remote transmission modules GSM – 1000 resp. GSM – 3000 resp. to the hand-held terminal AM-1000.

2. Function

The universal interface adapter **STK-RSU-232** is connected between the respective device and the PC interface.

Due to the integrated autodetect function the respective device interface, RS485 or RS232, is detected and set automatically.

The auxiliary power supply of the interface adapter is supplied by the control lines DTR and RTS of the COM interface RS232 of the PC.

3. Safety notes

Each person that is engaged with inauguration and operation of this device, must have read and understood this technical manual and especially the safety notes.

Installation, electrical connection, inauguration and operation of the device must be made by a qualified employee according to the informations in this technical manual and the relevant standards and rules.

The device may only be used within the permitted operation limits that are listed in this technical manual.
Every use besides these limits as agreed can lead to serious dangers.

The materials of the device must be chosen resp. checked for compatibility with the respective application requirements (contacting materials, process temperature)
An unsuitable material can lead to damage, abnormal behavior or destruction of the device and to the resulting dangers.

The device meets the legal requirements of all relevant EC directives. CE

4. Installation

not relevant

5. Electrical connection

The electrical connection of the device must be carried out according to the respective country specific standards. Incorrect installation or adjustment could cause applicationally conditioned risks.

The connection of the interface adapter to the interface plug of the respective device is made by easy plugging of plug and socket.
As guide for the correct rotation of the plug a red mark at the plug as well at the socket can be used. A wrong plugging is not possible due to the design.
The plug must be inserted till to the stop.

6. Operation

not relevant

7. Maintenance

The device is free of maintenance.

8. Repair

A repair may only be carried out by the manufacturer. When sending back the device, add a note with the description of the error and the application.

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9. Technical data

General

Permissible supply voltage:	by control lines DTR and/or RTS of the RS232 interface
Data transmission rate:	full-duplex, max. ≤ 57.600 Baud

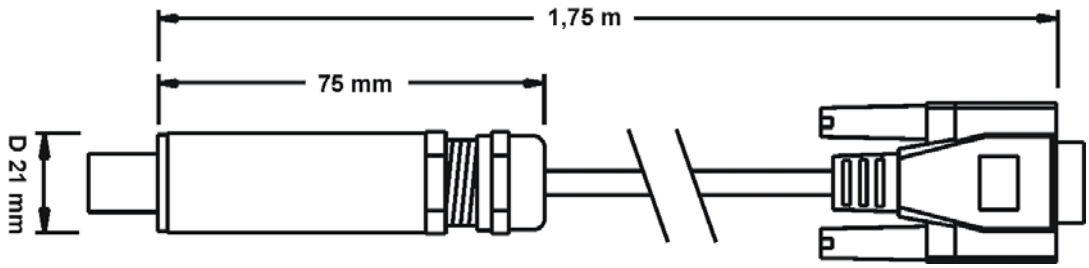
Materials

Housing:	PP polypropylene
Interface plug:	Socket brass nickel plated / chrome plated, insert PBT/PUR, contacts gold plated
Cable:	PE polyethylene
Gaskets:	FPM – fluorelastomere (Viton®)

Environmental conditions

Environmental temperature:	– 25°C...+60°C		
Weight:	0,15 kg		
Protection classification:	IP68 / 1mH_2O for 1h	EN/IEC 60529	
Climatic classification:	4K4H	EN/IEC 60721-3-4	
Shock classification:	15 g / 11 ms	EN/IEC 60068-2-27	
Vibration classification:	5 g / 10 – 2000 Hz	EN/IEC 60068-2-6	
EM – compatibility:	emission immunity	EN/IEC 61326-1 EN/IEC 61326-1	operation device class B industrial range
Reference conditions:	EN/IEC 60770-1 resp. EN/IEC 61003-1 T = 25 °C, rel. humidity 45...75 %, environm. air pressure 860...1060 kPa		

10. Dimension drawings



11. Order code

STK – RSU – 232

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