

GENEREX



SM_HYG2 / SM_II_HYG2 / SM64IIHYG2 Water Detector

!Attention: Essential to read!

At damages, that will be caused of non-observance of the instruction, the warranty claim expires. For secondary damages, that result out of it, we do not assume adhesion.

The assembly site of the device should be located about the sensors, so that in a claim rising water is not able to reach the housing, since it is not waterproof. You can attach one water detector „SM_HYG_S“ per device via connectors.

Description & Function:

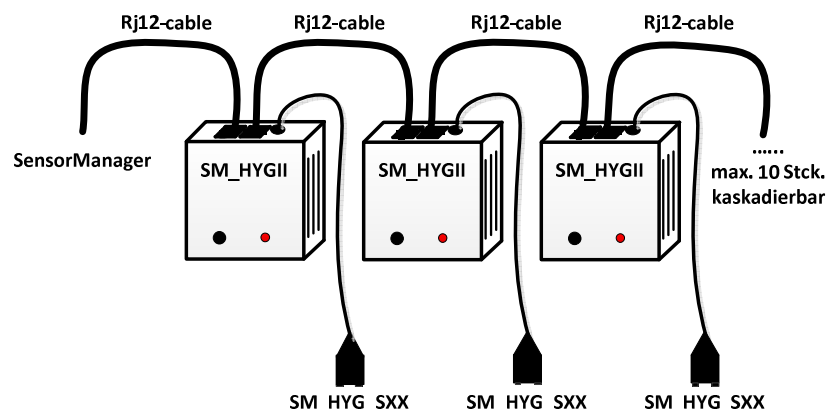
The „SM_HYG2/SM_II_HYG2/SM64IIHYG2“ is a water detector for the connection to the SiteManager II, SiteMonitor II or SensorManager II. In addition you can use „SM_HYG2/SM_II_HYG2/SM64IIHYG2“ as standalone water detector. It triggers signals audible, optical and via alarm contact, if the „SM_HYG_S“ will be in contact with water. Just as both contacts of the sensor will be in touch with water, the red LED will be flashing, the audible alarm and the alarm contact will be triggered after 10 seconds. The audible alarm can be activated or rather deactivated via „JP3/1“ (see *fig. 1+ table*). You can configure via „JP3/2“, if the alarm state should be kept even the normal water gauge is reached or if it should be resetted (see *fig. 1+table*). The potential-free contact alarm contact can be defined via „JP3/3“ as NO contact (normally open) or NC contact (normally closed, see *fig. 1+table*). You can mute the audible alarm via the „S1“ button. From “Rev. B” you can switch up to 10 „SM_HYG2/SM_II_HYG2/SM64IIHYG2“ in series. They are connected as “Or-Linkage”.

Attachment & Assembling:

Assemble the „SM_HYG2/SM_II_HYG2/SM64IIHYG2“ and the water detector „SM_HYG_S“ at an adapted site.

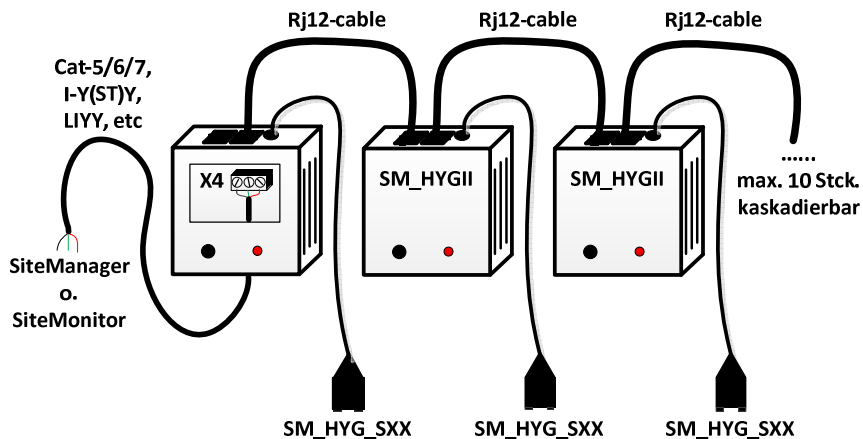
Connect the water detector „SM_HYG_S“ via the 2,5mm phone jack to the connector „X3“ (see *fig. 1*) of the „SM_HYG2/SM_II_HYG2/SM64IIHYG2“.

Connection to SensorManager II: Connect the provided RJ12 cable to the socket „X2“ of the „SM_HYGRO/SM_II_HYGRO/SM_64_HYGRO“ and at a free port of the SensorManager II. Please note, that „JP1“ has to be set at PIN 1+2“ and „JP2“ at PIN 2+3 (see *fig. 1*) for the operation at the SensorManager II (see table below). From “Rev. B” you can switch up to 10 „SM_HYG2/SM_II_HYG2/SM64IIHYG2“ in series. They are connected as “Or-Linkage” to one digital input of the Sensormanager II.

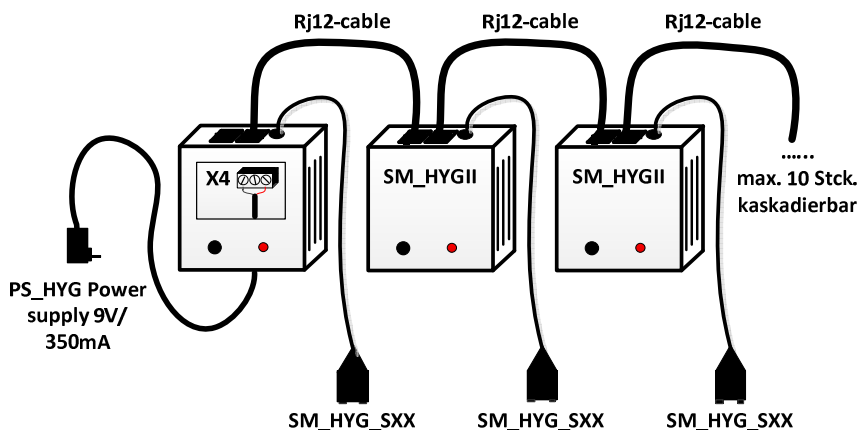


Connection to SiteManager II/SiteMonitor II: Drill at an adapted area (dependant of the assembling position of the sensor and its conductor) a bushing hole (approx. 4mm) into the sensor housing. Do not damage the housing during this procedure. We recommend to detach the housing! Place the open cable heads of the delivered 3-pole cable through the bore hole and than from the lower side through the bushing hole “B1” (see figure 1). Hang the cable end of the provided 3-pole cable at the clamps of „X4“ (see *fig. 1*) of the „SM_HYG2/SM_II_HYG2/SM64IIHYG2“ up. You will find the adjustment into the table below. You can use another cable here too (e. g.:Cat-5/6/7, I-Y(ST)Y, LIYY, etc.). Hang the other end accordingly to the adjustment at the clamps of the SiteManager II or SiteMonitor II. Please

note, that „JP1“ has to be set at PIN 2+3 and „JP2“ at PIN 1+2 for the operation at the SiteManager II or SiteMonitor II (see table below).



Connection Stand-Alone Operation: Drill at an adapted area (dependant of the assembling position of the sensor and its conductor) a bushing hole (approx. 4mm) into the sensor housing. Do not damage the housing during this procedure. We recommend to detach the housing! Place the open cable heads of the delivered power supply (9V/350mA) through the bore hole and than from the lower side through the bushing hole “B1” (see figure 1). Hang the open cable ends of the provided power supply (9V/350mA) at the clamps of “X4” of the „SM_HYG2/SM_II_HYG2/SM64IIHYG2“ up. You will find the adjustment into the table below. You can use another power supply too (9-15VDC). Please note, that „JP1“ has to be set at PIN 2+3 and „JP2“ at PIN 1+2 for the standalone operation (see table below).



Build-Up and Function of the Assembly Groups:

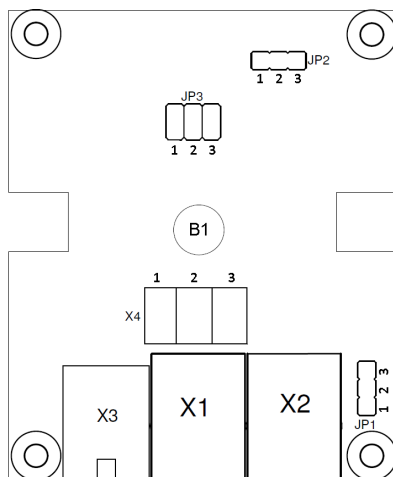


Fig.1

Marking:	Assembly Group:	Function:
X1	RJ12/6-pole-socket	Connection for the loop through of further sensors (Daisy Chain System)
X2	RJ12/6-pole-socket	Connection to SensorManager II
X3	Miniature jack plug 2-pole 2,5mm	Connection of the water detector SM_HYG_S
X4	3-pole terminal clamp	Connection SiteManager II/SiteMonitor II or standalone (power supply 9V/350Ma) via open cable ends X4/1: +15VDC (+9VDC at stand-alone operation) X4/2: Alarm contact (NO or NC) X4/3: GRD (-)
JP1	1x3-pole plug connector	JP1/1+2 bridged: Alarm contact X2 active (SensorManager II) JP1/2+3 bridged: Alarm contact X4 active (SiteManager II or SiteMonitor II, standalone)
JP2	1x3-pole plug connector	JP2/1+2 bridged: Alarm contact GRD (SiteManager II or SiteMonitor II, standalone) JP2/2+3 bridged: Alarm contact +12V (SensorManager II)
JP3	2x3-pole plug connector	JP3/1 set: Audible alarm active JP3/1 open: Audible alarm deactivated JP3/2 set: Alarm reset automatically JP3/2 open: Alarm reset via button (hold function) JP3/3 set: Alarm contact NO (normally open) JP3/3 open: Alarm contact NC (normally closed)
LED 1	red LED	Optical alarm sensor
S1	Mute button	Operation of the mute button deactivates the audible alarm sensor
B1	cable bushing	cable bushing for the power supply cable for stand-alone operation

Configuration:

Connect to your CS121 via web-browser, SiteManager II or SiteMonitor II. Click the „SensorManager II, SiteManager II or SiteMonitor II configuration menu and enter the desired data of the input, where you did connect the „SM_HYG2/SM_II_HYG2/SM64IIHYG2“.

Please take a look into the accordant user manuals for further information about the configuration options.

Technical Data:

Operating voltage:

9 – 15VDC (power supplied via SiteManager II, SiteMonitor II, SensorManager II or 9V/350mA at standalone))

Power consumption:

approx. 3,0 VA

Current consumption „Ready“:

20 mA (relay tightened)

Current consumption „Alarm“:

35 mA (transducer on, LEDs on)

Contact load:

125 VAC / 60 VDC / 1A

Reset device:

configurable via jumper

Reset device buzzer:

via mute button

Relay contact:

NC or NO

(configurable via jumper)

Dimensions:

70 x 70 x 27 mm (B x D x H)

Cable SensorManager II:

RJ12/6_5, 5m (provided)

Cable SiteManager II/SiteMonitor II:

5m 3-pole cable with open cable ends

Cable „SM_HYG_S“:

2m 2-pole connecting cable