

**Model: HDF-HANG**

**SENSOR MODULE FOR SECURING  
PICTURES ON GALLERY RAILS**

Commercial datasheet



**SECURITY TECHNOLOGY FOR MUSEUMS AND EXHIBITIONS**

**DESCRIPTION**

The **HDF-HANG** wireless alarm module is simply mounted near the gallery rail. It is attached to the wall or hung directly in the gallery rail with an optional holding plate. The brass latch on the **HDF-HANG** alarm module is connected via a short tension spring to one of the two holding ropes hanging from the gallery rail. The position of the bolt is monitored via a magnetic switch in the sensor electronics. If the picture is taken down, the weight on the holding rope will change and an alarm is immediately activated. The security system is exceptionally affordable to operate due to the fact that it is maintenance-free and has a long battery life of 10 years. The integrated 868 Mhz transmitter module achieves a high range even in solid buildings such as castles and palaces. The **Human Detector Flex** sensor **HDF-HANG** can be combined with all alarm and voice output devices (such as **HDF-BUZZER** and **HDF-SPEECH**) and the alarm monitoring unit **HDF-AMD**.

**HDF-HANG secures:**

- Pictures and paintings
- Hanging exhibits

The **HDF-HANG** alarm module monitors exhibits and works of art that are suspended from gallery rails or ceilings. The extremely low energy consumption ensures long lasting operation without the need to replace the battery.



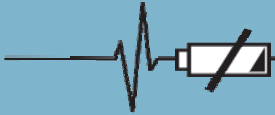


High range in buildings

10 years



Long battery life



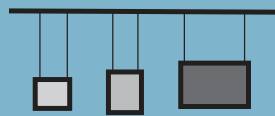
Battery monitoring



Mains and battery operation



Secure wireless transmission

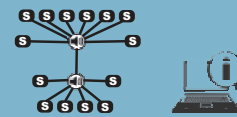


Securing gallery hanging systems

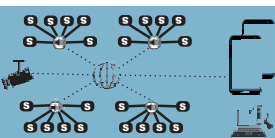


Alarm centre

EASY-Mode - starter class



MULTI-Mode - medium class



PROFI-Mode - premium class



## TECHNICAL SPECIFICATIONS

<b>Technology</b>	Wireless alarm module for securing suspended pictures
<b>Detection method</b>	Magnetomechanical switch for pendant rope
<b>Emphatic installation</b>	Installation near the gallery rail on the wall or directly on the gallery rail using a retaining plate (retaining plates for various gallery rails on request)
<b>Transmission frequency</b>	869,5 MHz
<b>Transmission power</b>	+ 15 dBm
<b>Range</b>	Up to 1500 m in open area, good penetration of walls due to modulation with frequency spread spectrum modulation *1
<b>Supply voltage</b>	3 V lithium battery CR2450 chngeable, external supply voltage 8-14 V AC/DC *2
<b>Supply current</b>	Typically 2 µA in standby, 50 mA during transmission
<b>Response time</b>	Typically 50 ms for complete transmission
<b>Other functions</b>	Concealed micro switch for switching on and off Micro push-button for linking individually and for test mode Sturdy brass slider for fastening cable or tension spring Optionally expandable with different holding plates for a range of gallery rails Long battery life up to 10 years *3 Monitoring strength of receive signal Monitoring battery voltage (alarm before end of battery life) All operating modes supported (EASY-, MULTI- and PROFI-Mode)*4
<b>LED</b>	3 mm LED red indicating radio operation, 3 mm LED green indicating program function
<b>Dimensions</b>	90,4 mm (L) x 59 mm (W) x 17 mm (H)
<b>Weight</b>	Approx. 86 grams including battery
<b>Material of casing</b>	Impact-resistant plastic ABS UL94V-1
<b>Protection class</b>	IP20 (EN 60529)
<b>Temperature range</b>	-10° C to +60° C if powered
<b>Humidity</b>	0-95%, non-condensing
<b>Conformity</b>	EN 61000-6-2; EN 61000-6-3; EN 62368-1; EN 63311 ETSI EN 301489-1, ETSI EN 301489-3, ETSI EN 300220-2; EN 63000 (RoHS)

\*1 The range achieved may vary depending on the spatial conditions. All measurements carried out with standard module antenna.

\*2 We reserve the right not to ship the CR2450 lithium button cells in case of airfreight. A credit note will be issued therefore.

\*3 The specified value is approximate. The service life may change depending on alarm frequency, temperature and battery age.

\*4 For more information on the various operating modes, please refer to the separate data sheets.

Specifications are subject to change without prior notice. All measurements were performed under specific conditions.

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www.human-detector.com

Human Detector® HDF-HANG SENSOR MODULE FOR SECURING PICTURES ON GALLERY RAILS

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