



## **EC Declaration of Conformity**

We declare under our sole responsibility, that the product

**LANCIER Monitoring** HTxA-PM

to which this declaration refers, meets the relevant health and safety requirements of the following EC directives:

2006/95/EG Low voltage directive 2004/108/EG Electromagnetic compatibility

For proper implementation of the health and safety requirements named in the EC directives the following standard(s) and/or technical specification(s) have been consulted:

Safety of information technology equipment EN 60950

EN 61326-1 Electrical equipment for measurement, control and laboratory use -

EMC requirements (class B)

Münster, 16.11.2011

Monitoring GmbH.

either complete or in extracts, before the specific consent of LANCIER This operating instruction must not be reproduced or made available,

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It is imperative to read and observe all safety instructions

Keep the operating instructions ready to hand!

Order-no. 043771.000

BA 046335.020/11.11

Operating Instruction

Addressable Humidity Sensor

LANCIER

HTxA-PM

Mq-AxTH noene2 ytibimuH

prior to initial operation!

Ordering Data

**Technical Data** 

# Safety Instructions

Read and observe safety instructions Important!



damages. The operator carries the risk!

brior to initial operation!

Any non-compliant use excludes the manufacturer from liability for any and rooms.

The Humidity Sensor HTxA is designed to monitor the humidity in cables

## Designated Use

sional operation shall also be observed. the place of use, the recognized technical regulations for safe and profesthe prevention of accidents, applicable in the operator's country and at In addition to the operating instructions and the mandatory regulations for

anyone assigned to work with/on the equipment, e. g. during operation to include setting-up, maintenance trouble-shooting. These operating instructions shall be read and adopted by



for the prevention of accidents and the protection of the environment. The operating instructions endorse the directives of national regulations ensure safe, appropriate and cost-effective use of the equipment. acquainted with the product. They contain important information to These operating instructions should make it easier for you to become

General Information

(H × W × J) mm 8 f x 0 E x 88 Dimensions O. 06+ " 07-Storage temperature -50 " +70 °C Operating temperature Modulation current typ. Rated DC current typ. Am 3.5 Quiescent current typ. 20 .. 120 V DC Supply voltage  $\leq 200 \text{ ms}$ Aeset time Deviation from transmission time sm 001 ≥ s G. F Transmission time Operating cycle / address s S Time windows (addresses) 1500 V DC at 10/700 µs Transverse impulse stability at Tx-bus ± 3.0 % r.h. Max. error Resolution .d.1 % r.h. .4.7 % 26 .. % 0 Measuring range





Accident prevention!

All circuit lines must be dead before mounting or dismounting of the sensor or the opening of the sensor housing!

- The sensor should only be operated in technically-sound condition, for its designated use, with safety and risk awareness in mind, taking into account the operating instructions. In particular, operational faults, which can compromise safety, should be rectified immediately!
- Do not make any modifications to the sensor!
- Mounting, maintenance and repair work should only be performed by trained personnel!
- · Only use original LANCIER Monitoring replacement parts!

### **Function**

The addressable Humidity Sensor HTxA measures the ambient humidity in a range of 0 % to 95 % r.h. and transduces it into output frequencies between 1000 and 1950 Hz.

The sensor is integrated into the monitoring system by the LANCIER Tx-bus.

#### The LANCIER Tx-bus

A maximum of 127 addressable sensors can be connected to one Tx-bus pair.

The measured values of all sensors connected to the LANCIER monitoring system are transmitted in time intervals. Therefore all sensors must be coded before installation.

## Coding



Accident prevention!

All circuit lines must be dead before mounting or dismounting of the sensor or the opening of the sensor housing!

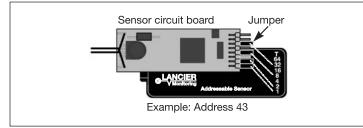
- · Open the housing.
- Lift side clamping straps with a screw driver.



Important!

Obey handling instructions. Electrostatic discharge (ESD) damage.

- Take sensor circuit board out carefully.
- Place the jumpers with needle-nose pliers according to the required address and the coding table next page.
- Place the jumpers only on one pin if contact should stay open.



- The test bridge (T) must stay open.
- Mark the adjusted code onto the sensor label with a water-proof pen.
- Close housing:

Put sensor circuit board into housing. Place cables into cable bushing and close housing. Take care that clamping straps snap in properly.



Important!

Do not clamp the wires while closing the housing!

### **Coding table**

Code	64	32	16	8	4	2	1	Code	64	32	16	8	4	2	1	Code	64	32	16	8	4	2	1	Code	64	32	16	8	4	2	1
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■ Coding bridge closed

#### **Function Test**

Each sensor has to be checked with the LANCIER Testbox (Order-no. 050833.000) for accurate function and coding. The necessary steps are described in the manual of the Testbox.

### **Mounting**

- Check sensor for correct address code (visually / Testbox).
- If mounted into a sleeve: Open sleeve.
- Fix sensor to a rod of the sleeve.
- · Identify supervision pair and check it with the Testbox.
- Connect sensor:
- Connect supervision pair with the sensor's two green wires.
- Check sensor function on pair with Testbox.
- If mounted into a sleeve: Close sleeve.



### Important!

The sensor must be used in oil-free and solvent-free environment only!



Risk of damage to property!

If the sleeve is heated beyond the maximum allowed sensor storage temperature (90 °C) (e. g. for soldering the lead sleeve), the sensor must be wrapped with heat resistant material (paper tape i. a.) and placed in the sleeve's centre.



Important!

Check all sensors before use, in order to avoid later malfunction!

<sup>□</sup> Coding bridge open