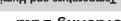
## Eted lesindset

(H × W × J) mm 31 x 05 x 88	snoisnemiQ
O∘ 06+ <sup></sup> 0⊅-	Storage temperature
-20 <sup></sup> +70 °C	Operating temperature
<sub>qq</sub> Am ∂.£	Modulation current typ.
Am 7.8	Rated DC current typ.
Ay 03	Quiescent current typ.
20 120 V DC	Supply voltage
$ m sm$ 002 $ m \geq$	Aeset time
$sm 00t \ge$	Deviation from transmission time
s	Transmission time
s S	Operating cycle / address
5	Time windows (addresses)
1500 V DC at 10/700 µs	Transverse impulse stability at Tx-bus
± 3.0 % r.h.	Max. error
0° 1 °C	
0.1 % ג.ה.	Resolution
-20 °C +70 °C	
	Measuring range

# Ordering Data

MG-AxTM rosnes VibimuH bns entered more and the more and



Order-no. 072759.000







prior to initial operation!



It is imperative to read and observe all safety instructions



© 2006 LANCIER Monitoring GmbH

Keep the operating instructions ready to hand!

Read and observe safety instructions

prior to initial operation!

damages. The operator carries the risk!

sional operation shall also be observed.

temperature and humidity in pressurized cables.

Important! Safety Instructions

Designated Use

Münster, 11.10.2022

Make:

Type:

directives:

2014/35/EU

2014/30/EU

2011/65/EU

2012/19/EU

(fault-free operation)

EN 61000-6-3/4 Emitted interference

EN 61000-6-1/2 Interference resistance

For proper implementation of the health and safety have been consulted:

requirements named in the EC directives the following standard(s) and/or technical specification(s)

either complete or in extracts, before the specific consent of LANCIER

This operating instruction must not be reproduced or made available,



LANCIER

# EC Declaration of Conformity

MTxA-PM

to which this declaration refers, meets the relevant

health and safety requirements of the following EC

**RoHS-II** 

LANCIER Monitoring

Low Voltage Directive

Waste Electrical and **Electronic Equipment** 

Electromagnetic Compatibility

( {



Addressable Temperature and

LANCIER

MTxA-PM

**Humidity Sensor** 

BA 072952.020/10.22



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 intormation to These operating instructions should make it easier for you to become

tor the prevention of accidents and the protection of the environment.

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

The temperature and humidity sensor MTxA is designed to monitor the

the place of use, the recognized technical regulations for safe and protesthe prevention of accidents, applicable in the operator's country and at In addition to the operating instructions and the mandatory regulations for

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

# General Information



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 temperature and humidity sensor MTxA measures

- the ambient temperature in a range of -20 °C to 70 °C and transduces it into output frequencies between 800 and 1700 Hz.
- 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 Txbus.

## The LANCIER Tx-bus

A maximum of 127 addressable sensors can be connected to one Tx-bus pair. The MTxA uses two sensor addresses.

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.

On the set address (n) the measured values for temperature and on the following address (n+1) those for humidity are transmitted. Therefore, the address "n+1" must not be used for other sensors.

### 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.

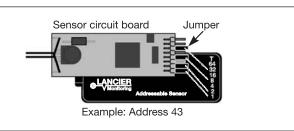


Note! The MTxA uses two subsequent addresses.

The first address is coded.

The temperature value is allocated to the coded address, the humidity value to the subsequent address.

· Place the jumpers only on one pin if contact should stay open.



• The test bridge (T) must stay open.

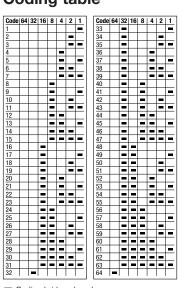
Important!

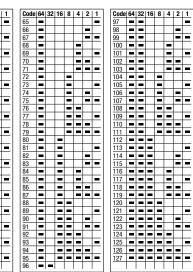
- Mark the adjusted code onto the sensor label with a water-proof pen.
- Close housing:

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

Do not clamp the wires while closing the housing!

# Coding table





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Coding bridge closed

Coding bridge open

### **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).
- · 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.
- · Close sleeve.

### 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 or similar) and placed in the sleeve's centre.

### Important!

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