

# Product Information

## RM-Tx

### Interface module to integrate addressable sensors into the Rail-Module-Bus

The Rail-Module-Bus from LANCIER Monitoring is a compact and robust sensor system.

Several measuring modules are mounted on a top-hat rail and are directly connected to one another by means of plug-in contacts. The supply voltage, data analysis and control panel as well as their transmission to the remote measuring stations are carried out via the RM-Basic module.

The RM-Tx interface module is used to integrate addressable Tx-Bus sensors into the RM-Bus system.

In the Tx-Bus, measured values are transmitted at low bandwidth over long distances via a copper monitoring pair. The operating range might cover more than 50 km depending on the quality of the

used copper pair (refer to our product information 'Tx-Bus - Mode of operation and planning rules').

The thresholds for the individual sensors are set on the server side via the connected monitoring system.



## Technical Data

Number of measuring channels	1 channel for up to 127 Tx-Bus sensors
Bus voltage $U_{ATX}$	60 V
Current limiting typ.	30 mA
Measuring range	700 .. 2400 Hz
Input sensitivity	$\geq 35$ dB typ. (600 $\Omega$ )
Supply voltage	12 V / 5 V DC by RM-Basic module
Power consumption	max. 4 W
Input measuring line pulse strength 1.2/50 $\mu$ s	1000 V
Operating temperature range	-20 °C .. +65 °C
Storage temperature range	-40 °C .. +70 °C
Admissible ambient humidity	0 .. 95 % rel. humidity, non-condensing
Display	Monochrome LC-Display by RM-Basic module
Signal LEDs per measuring channel	
BUS green / red	red: Signals pending green: Measuring channel activated
STATE green / red	red: Measuring interval green: Operation
DISPLAY blue	Display operation
Dimensions RM-Tx (W x H x D)	72 x 89 x 65 mm

**A maximum of 4 RM-Tx modules can be connected to 1 RM-Basic module.**

## Ordering Data

### RM-Tx

Interface module to integrate addressable sensors into the Rail-Module-Bus

**Order-No. 074005.000**

### RM-Basic

Power supply, communication and display module for the RM-Bus

**Order-No. 074001.100**

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### System diagram

#### Rail-Module-Bus

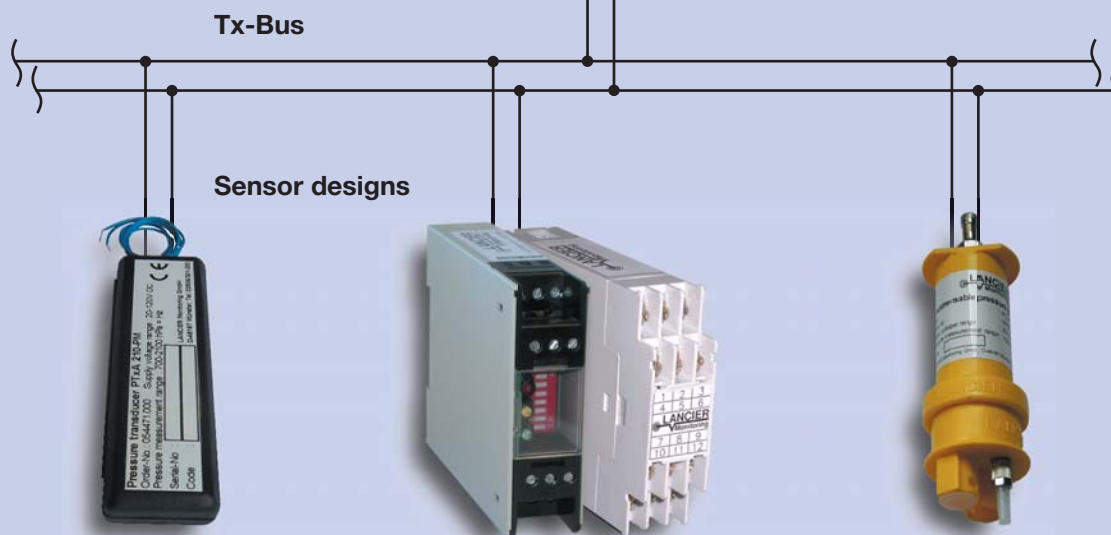
with RM-Basic module for power supply, measurement value display and forwarding with RM-Tx module for the reading of Tx-Bus sensors.











RM-Basic module

RM-Tx Modul

Each RM-Tx module can read up to 127 sensors on a single Tx-bus.



#### Addressable sensors for

- |                                                                                                                                     |                                                                                                                                   |                                                                                                           |
|-------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
|  - Contacts (door contacts, manhole covers etc.) |  - Ambient temperature and humidity            |  - Airflow             |
|  - Pressure                                      |  - Current/voltage                             |  - Optical attenuation |
|  - Insulation and loop resistance                |  - Optical shortcut direction indicators (RKA) | - Further parameters on demand                                                                            |