

# Product Information

## RM-Loop

### Loop Resistance Module to monitor remote switches

The LANCIE Monitoring Rail-Module-Bus is a modular and robust sensor system.

Several measuring modules are mounted on a DIN 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-Loop module is a measurement and monitoring unit for the surveillance of remote switches (eg. floating switches, door contacts) in the LANCIE Monitoring RM bus.

Each RM-Loop module can monitor two loops continuously. The switch conditions are recognized due to the measured loop resistances. The alarm thresholds are freely programmable using the integrated

keypad and the basic module's display. All settings are saved in an internal EEPROM memory to prevent losses.

For the remote alarm system the RM-Loop module possesses built-in dry output contacts. Additionally it can be connected to the LANCIE Tx-Bus, a Can-Bus or a telecontrol system via Modbus.



RM-Basic module

RM-Loop module

## Technical Data

### Loop resistance

Measurement range	0 .. 9.99 K $\Omega$ , fault $\pm 3$ % of measurement, $\pm 50$ $\Omega$
Resolution	10 $\Omega$
Measuring voltage	24 V DC
Supply voltage	by RM-Basic module
Operating temperature	-20 $^{\circ}$ C .. +65 $^{\circ}$ C
Admissible ambient humidity	0 .. 95 % rel. humidity, non-condensing
Display	by RM-Basic module
Signal LEDs	
LOOP 1 / LOOP 2	green / red
DISPLAY	blue
Signal outputs	2 dry change-over contacts for loop resistance alarms
Max. switchable voltage / current	100 V DC / 0.1 A DC
Dimensions RM-Loop (W x H x D)	72 x 89 x 65 mm

## Ordering Data

### RM-Loop

Loop resistance measuring module  
with control panel and signal outputs via dry contacts

**Bestell-Nr. 074008.000**

### RM-Basic

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

**Bestell-Nr. 074001.100**

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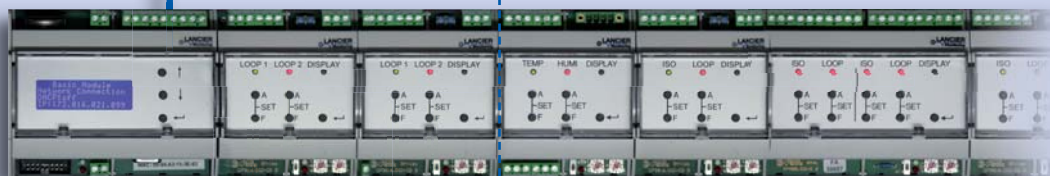
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#### System diagram

Communication via  
Ethernet  
RS485/232  
GPRS  
GSM  
Tx-Bus

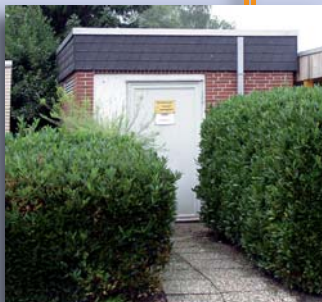


Network  
Provider HQ



Modularly expandable  
to monitor further parameters ...

Each  
RM-Loop-Module  
surveils up to  
2 contacts.



Access control  
- e.g. door contacts



Manhole monitoring  
- e.g. floating switches with reed contacts

Switches and contacts  
of all kinds