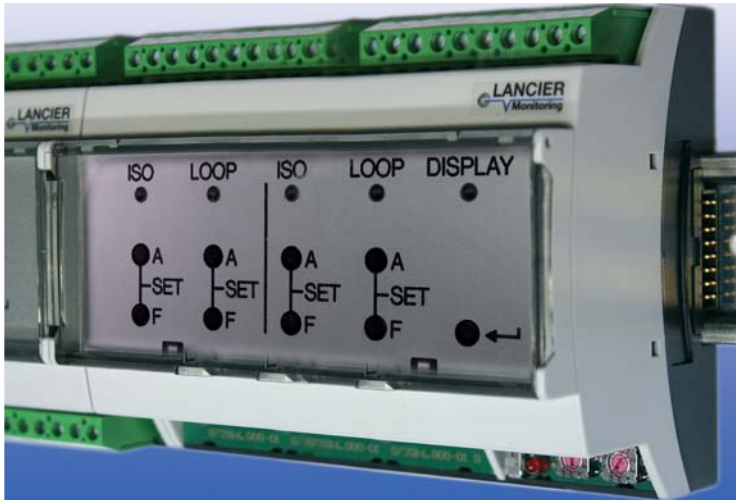


Product Information

RM-WL

Leakage Monitoring and Fault Localisation in Pipe Systems



RM-Basic module

RM-WL module

The 2-channel **RM-WL monitoring module** for measuring insulation and loop resistances, in order to **detect and locate leaks in pipe systems and rooms**, monitors the insulation and loop resistance of a 4-wire **WLC leak warning cable**.

The leak warning cable is positioned below horizontal fluid-conducting pipes, if necessary inside an insulation layer, wrapped around vertical pipes or installed in regular loops in room floors. In this way, it can detect leakages of electrically conductive fluids, e.g. water, acids and alkalis.

The WLC cable is measured continuously by the RM-WL module. Threshold values for both the loop and insulation resistance can be adjusted locally via the built-in keys and shown on the display of the basic module. Alongside the settings current measured values are of course also displayed.

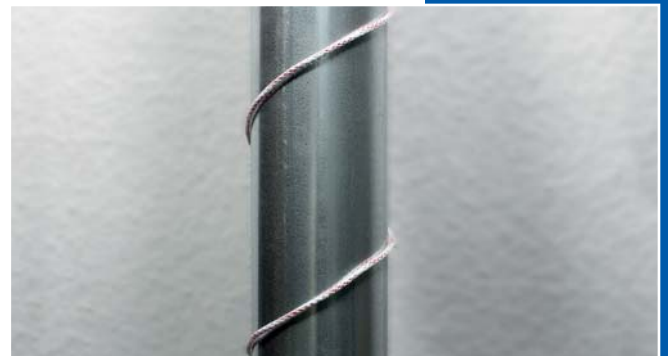
Furthermore, the RM-WL module recognises and reports line interruptions.

For remote alarms RM modules are fitted with potential-free alarm contacts. Beyond that they can be integrated into tele-control systems or the LANCER UMS monitoring system via a range of interfaces.

Furthermore, the use of the LANCER UMS software makes it possible to display the pipe network's status and to represent it in a geographical information system.

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

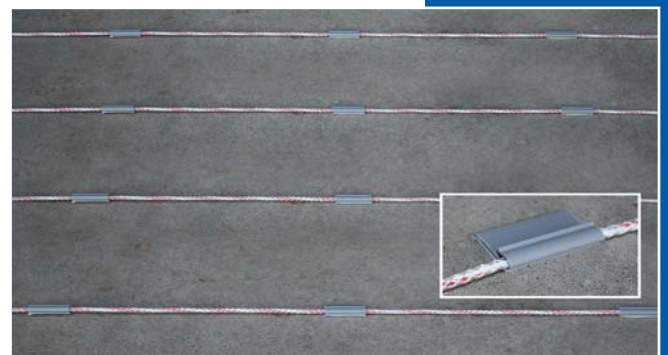
Several measuring modules are mounted on a DIN rail and are directly connected to one another by means of plug-in contacts. The supply voltage, data analysis and control panel as well as their transmission to the remote measuring stations are carried out via the RM-Basic module.



Installation on vertical pipes



Installation on horizontal pipes



Installation with clip for floor monitoring

Product Information

RM-WL

Leakage Monitoring and Fault Localisation in Pipe Systems

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Technical Data RM-WL Module

Measurement channels	2
Measurement range insulation	0 .. 50 M Ω , fault ± 1 % of measured value, ± 5 digits
Resolution insulation	0.001 M Ω
Measurement range loop	0 .. 9.999 k Ω , fault ± 1 % of measured value, ± 5 digits
Resolution loop	0.001 k Ω
Location tolerance	± 1 %, ± 1 m for insulation values < 1M Ω for sensor wire 6.4 Ω /m
Measuring voltage	≤ 24 V DC, switchable and disengageable
Supply voltage	12 V / 5 V DC by RM-Basic module
Display	by RM-Basic module
Signal LEDs	2 x red/green: insulation condition 2 x red/green: loop condition 1 x blue: display operation
Local User Interface	Set threshold insulation resistance and loop resistance Measurement deactivation, fault location (6.4 Ω /m)
Signal outputs	2 dry change-over contacts for: insulation resistance, loop resistance
Max. switchable voltage / current	100 V DC / 0.1 A DC
Operating temperature	-20 °C .. +65 °C
Admissible humidity	0 .. 95 % rel. humidity, non-condensing
Dimensions RM-Modul (W x D x H)	108 x 65 x 90 mm

Ordering Data RM System

RM-Basic Power supply, communication and display module for the RM-Bus	Order-No. 074001.100
RM-WL Measuring module with control panel and signal output for Leakage Monitoring and Fault Localisation (up to 1000 m) in Pipe Systems	Order-No. 074707.000
RM-T2 Measuring Module for 2 PT 1000 temperature sensors	Order-No. 074700.000
RM-Loop Contact Monitoring Module for 2 contacts	Order-No. 074008.000
RM-Power Voltage Converter 110 .. 230 V AC / 24 V DC, for DIN Rail Module	Order-No. 074009.000

Ordering Data WLC System

WLC leak warning cable (by the meter)	Order-No. 075951.000
Assembly as an end cable with plug and shrink cap	Order-No. 075952.001
Assembly as an extension cable with plug and socket	Order-No. 075952.002
Connection cable WLC with coupling, length 5 m	Order-No. 075958.005
with coupling, length 10 m	Order-No. 075958.010
Mounting kit plug WLC	Order-No. 075953.000
Mounting kit socket WLC	Order-No. 075954.000
T-fitting WLC	Order-No. 075955.000
End plug WLC	Order-No. 075956.000
Mounting clip WLC (10 pcs.)	Order-No. 075957.000

Product Information

RM-WL

Leakage Monitoring and Fault Localisation in Pipe Systems

System diagram

