

Product Information

PipeAlarm2

District Heating Monitoring Device

PipeAlarm2 of LANCIER Monitoring is the compact and cost-effective monitoring device for district heating pipes as well as cooling pipes with surveillance pair inside their insulation layer.

It is easy to install and very user friendly. The device can trigger external alarm equipment such as sirens, beacon lights and others by its integrated dry contacts.



The two channel measuring devices **PipeAlarm2** permanently monitor the flow and the return line of a district heating route. For this purpose they measure the insulation and loop resistance of the surveillance pair in the insulation layer of the pipes (both "Nordic System" and "NiCr-System") according to EN 14419. **In case of leakage, cut measuring loop or pipe connection they immediately raise an alarm** thus preventing larger damage and economical loss. Pending insulation and loop resistance alarms can be acknowledged by the device's push-buttons.

PipeAlarm2 devices store the measurement values (insulation and loop resistance) each a day for the last 30 day period to an internal EEPROM memory.

Configuration and threshold settings for insulation and loop resistance are programmable by a laptop which is connected to the Ethernet interface. The laptop's internet browser is suitable to do this. No extra software is required.

Technical Data

PipeAlarm2 short

PipeAlarm2

Supply voltage	90 .. 250 V AC, 50 .. 60 Hz	
Power consumption	max. 5 W	
Measurement channels	2 (e. g. for flow and return line of a district heat pipe)	
Measurement range insulation	0 .. 5 MΩ fault: 3% of measured value ±10 kΩ absolute	0 .. 10 MΩ fault: 3% of measured value ±10 kΩ absolute
Measurement range loop	0 .. 5.0 kΩ fault: 3% of measured value ±0.02 kΩ absolute	0 .. 9.99 kΩ fault: 3% of measured value ±0.02 kΩ absolute
Measuring distance:	NiCr ≤ 750 m, nordic system ≤ 3000 m	NiCr ≤ 1500 m, nordic system ≤ 3000 m
Measuring voltage	typ. 24 V DC	
Display	per measurement channel 1 LED bar graph for „Iso measurement” per measurement channel 1 signal LED for „Loop error” and „Iso error” each	
Operation	1 acknowledgement button each for „Iso alarm” and „Loop error” 1 Ethernet interface for device configuration threshold settings and measurement reading	
Signal outputs	1 dry change-over contact per: insulation resistance, loop resistance Max. switchable voltage: / current 250 V AC / 1 A AC	
Interface	Ethernet 10/100 Mbit/s, temporary for configuration purposes	
Operating temperature	-5 °C .. +40 °C (others on request)	
Admissible humidity	0 .. 50 % at 40 °C, 0 .. 100 % at 25 °C short-time	
Degree of protection by enclosure	IP 54	
Field of application	Indoor and sheltered installation according to DIN VDE 0100 part 737. residential and business area as well as small enterprises	
Dimensions (h x w x d)	238 x 146 x 111 mm	

Ordering Data

two channel measuring device for district heating routes
with pipe connection surveillance, indication panel and alarm output by dry contacts

PipeAlarm2 short (maximum length of measured section NiCr ≤ 750 m)

Order-no. 074840.100

PipeAlarm2 (maximum length of measured section NiCr ≤ 1500 m)

Order-no. 074840.200

Product Information

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System Diagramme

