Product Information



LANCIER Monitoring GmbH Gustav-Stresemann-Weg 11

48155 Münster, Germany

Tel. +49 (0) 251 674 999-0 Fax +49 (0) 251 674 999-99

mail@lancier-monitoring.de

www.lancier-monitoring.de

PipeCheck

Hand-held measuring device for district heating pipe sensors





Small, light and efficient: the *PipeCheck* mobile measuring device by LANCIER Monitoring.

Used for inspecting existing or newly installed measurement sections in district heating pipeline monitoring.

Intuitive operation using just three keys. The illuminated, glare-free LC display can also be easily read in difficult lighting conditions. A battery-saving LED torch is integrated into the device for working in dark areas.

The *PipeCheck* identifies the MH level, as well as the insulation and loop resistance. By reversing the polarity of the metering voltage automatically, the interference from the element potential is eliminated and so a typical measurement error is avoided.

The *PipeCheck* recognises the following faults:

- pipe leakage,
- breaks in the measurement section,
- pipe connection fault,

• contact of a sensing wire with the media pipe and detects the length of the loop (for NiCr only).

All measurements are stored on a replaceable **memory card** with a georeferenced time-stamp (via internal GPS module) for later **post-processing on the PC**.

The battery-operated measuring device is equipped with a USB port for easy data transfer.

The *PipeCheck* is supplied in a handy shock-proof carry case.

Measurement channels	1
Measurement range insulation	0 100 MΩ (fault: ±1 % of m. v. for 0 20 MΩ, ±3 % of m. v. for > 20 MΩ ±1 Digit)
Resolution insulation	0.1 kΩ
Measurement range loop	0 15 k Ω (fault: ±1 % of measured value ±10 Ω absolute ±1 Digit)
Resolution loop	0.001 kΩ
Pipe length	NiCr: max. 2.500 m (1m = 5,8 Ω) HDW / Cu (nordic system): max. 4.000 m
Pipe contact control	yes
Measuring voltage	\leq 24 V DC and < 100 mA (according to EN 14419)
Display	LC display, monochrome grey, glare-free
Power supply	Li-lon rechargeable battery, operating duration 10 h typ.
Features	Location tracking by GPS module SD memory card (max. 2 GB, FAT 16) Integrated LED torch USB port Battery status display
Operating temperature	-10 50 °C
Admissible humidity	0 95 % rel. humidity, non condensing
Dimensions (I / w / h)	approx. 221 / 106 / 35 mm
Weight, including case and accessories	approx. 1.55 kg

Ordering Data

Technical Data

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Hand-held measuring device PipeCheck for district heating pipe sensors

Order-no. 075163.000

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Systems comparison	PipeCheck	PipeCheck plus
Figure	Contraction and Contraction an	PipeCheck Current Control of Cont
NiCr-Measurement		
Insulation and loop measurement	R _{loop} 15 kΩ	✓ R _{loop} 50 kΩ
Fault location	×	V
Nordic measurement		
Insulation and loop measurement	 ✓ 	 ✓
HDW measurement		
Iso measurement $a \rightarrow b$, Iso measurement $a b \rightarrow pipe$, loop resistance	V	V
Individual Iso measurement a→pipe, b→pipe	×	V
Features		
GPS module	 ✓ 	 ✓
Data storage	 ✓ 	 ✓
Route memos	×	 ✓
Individual measurements for loop survey	×	 ✓
Integrated LED torch	V	V
Comprehensive accessory kit	Option	 Image: A set of the set of the
Outdoor box	Option	 ✓

Measurement setup

The measuring wire (1) is about 1 m long and branched in the middle.

The red and green measuring wires (2) are connected to the sensing leads of the pipe to be measured.

The black measuring wires (**3**) are connected to the media pipe by means of a pipe connection magnet (**4**). They must not have direct contact to each other.

All measuring wires are equipped with banana plugs. Alligator clips and a pipe connection magnet are included to simplify the connection works.

