

RAT-2b



RAT-2b

leak detector for remote monitoring
of district heating network.

Leak detection and location in resistance network.



General information:

Leak detection and location in resistance network

Application:

District heating

Technical specification:

Main functions:

Type of measurement

Insulation resistance
Loop resistance
Galvanic voltage
Continuous loop control

Control of connection to the pipe

Specification

0 - 200 M Ω

0 - 100 k Ω

0 - 2000 mV

Triggering of detector
by breaking of loop

Resistance measurement
between supply and return pipe

Insulation resistance measurement:

Test range
Test voltage
Test current
Accuracy up to 1 M Ω
Accuracy over M Ω
Measurement in both polarities

0 - 200 M Ω
24 V
max. 100 mA
+/- (2% of m. + 8 digits)
+/- (5% of m. + 8 digits)

Loop resistance measurement:

Test range
Test voltage
Test current
Accuracy
Measurement in both polarities

0 - 100 k Ω
24 V
max. 100 mA
+/- (2% of m. + 8 digits)

Galvanic voltage:

Test range
Accuracy

0 - 2000 mV
+/- 5%

Leak location in resistance pipe network:

Accuracy
Location threshold
Test results displayed in **RATMON** system
Test results displayed in % or meters

+/- 2 m +/- 0,2% of measured length
< 2 MΩ

Communication:

2g/CAT-M/NB-IoT/LAN/MODBUS (RS485)/MODBUS TCP/IP (LAN)/RELAY

Number of channels:

2 or 4

Power supply:

12 V DC / 120 - 240 V AC

Housing:

IP65

Dimensions:

200 x 150 x 75 mm

Weight:

0,64 kg

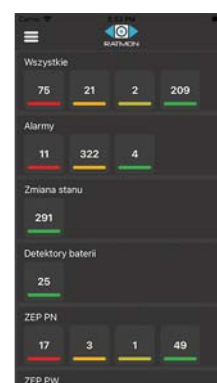
Software:



RATMON - web application for remote data acquisition and analysis of test results as well as configuration and operation of detectors.



RATMON MOBILE - Android and iOS application for reviewing of pipe loops state.



RATMANAGER - PC software for configuration and operation of detectors.

Scope of delivery:

- RAT-2 device with DIN mounting bracket
- 12 V AC/DC power adapter
- GSM antenna (for devices with GSM module)

Optional accessories:

DESCRIPTION

- Battery module
- External GSM antenna
- Basic connection box, two loops
- Five-core wire connection box, two loop
- BNC/UHF connection box, two loops
- M16 6pin connection box, two loops
- M16 6pin connection box, one loops
- Hermetic power adapter
- Grounding
- M16 6PIN measuring adapter
- External cabinet with NEMA certificate

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