

RAT-2



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Leak detector for remote monitoring of district heating network.

Leak detection by insulation and loop resistance measurements.

General information:

Leak detection in impulse and resistance networks

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 1 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

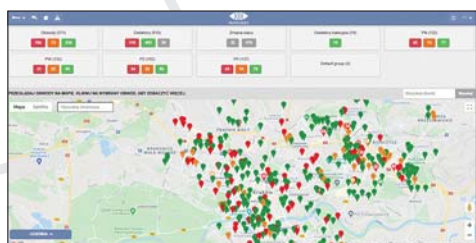
24 V

max. 100 mA

+/- (2% of m. + 8 digits)

Galvanic voltage:	Test range Accuracy	0 - 2000 mV +/- 5%
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	

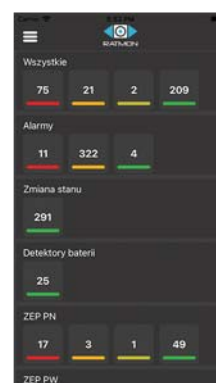
Software:



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	INDEX
Battery module	BAT-1
External GSM antenna	ANT-1
Basic connection box, two loops	BOX-1
Constant impedance connection box, one loop	BOX-3
Five-core wire connection box, two loops	BOX-4
BNC/UHF connection box, two loops	BOX-5
Hermetic power adapter	ZH-1
Grounding bracket	GND-1
External cabinet with NEMA certificate	SK-1