

# MEGALOC-1

**DIAGNOSTIC DEVICE  
FOR LEAK DETECTION AND LOCATION  
IN IMPULSE AND RESISTANCE  
PIPE NETWORK**



## MegaLoc- 1/1b

**Portable diagnostic tester for fault detection and location, designed to work in difficult job site terrain.**

Device enables fault detection and location in various network, including impulse and resistance. Compatible with RATMON system.

Test results can be saved in internal memory or to be sent to RATMON system.

### General information:

Fault location in impulse network by TDR technology  
Leak location in resistance network  
Foam insulation resistance test  
Loop resistance test  
Touch screen  
Water and shock resistant housing  
Battery powered  
Data saving in internal memory or in RATMON system  
Housing IP65

### Technical specification:

#### Fault location by TDR technology:

Test range	up to 10 km (by VOP 100%)
Pulse rate	1 - 70 ns
Gain adjustment	x 30
Velocity of propagation (VoP)	40 - 100%
Possibility to select any part of the chart	0 - 10 km
Accuracy	+/- 0,01% range +/- 1 px
Noise filtration	50/60 Hz; 20 Hz; 100 MHz, 200 MHz, 350 MHz, 650 MHz, 750 MHz, 900 MHz
Selectable output impedance	42 Ω; 50 Ω; 75 Ω; 100 Ω

**Leak location in resistance pipe network:  
(option - MegaLoc - 1b)**

 Measurement accuracy  
 Location threshold  
*Test results displayed in % or meters*
 $\pm 2 \text{ m} \pm 0,2\%$  of the range  
 $< 2 \text{ M}\Omega$ 
**Insulation resistance measurement:**

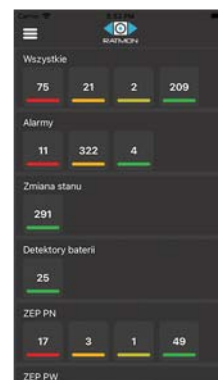
 Test range  
 Test voltage  
 Test current  
 Accuracy up to  $1 \text{ M}\Omega$   
 Accuracy over  $1 \text{ M}\Omega$   
*Measurement in both polarities*
 $0 - 200 \text{ M}\Omega$   
 $24 \text{ V}$   
 max.  $100 \text{ mA}$   
 $\pm (2\% \text{ of m.} + 8 \text{ digits})$   
 $\pm (5\% \text{ of m.} + 8 \text{ digits})$ 
**Loop resistance measurement:**

 Test range  
 Test voltage  
 Test current  
 Accuracy  
*Measurement in both polarities*
 $0 - 100 \text{ k}\Omega$   
 $24 \text{ V}$   
 max.  $100 \text{ mA}$   
 $\pm (2\% \text{ of m.} + 8 \text{ digits})$ 
**Galvanic voltage::**

 Test range  
 Accuracy

 $0 - 2000 \text{ mV}$   
 $\pm 5\%$ 
**Abmessungen:**
 $290 \times 280 \times 140 \text{ mm}$ 
**Waage:**
 $3,2 \text{ kg}$ 
**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:**

- MEGALOC-1 device
- Magnetic pipe connector
- Power supply:  $12 \text{ V DC} / 120 - 240 \text{ V AC}$
- Measuring wires
- Pendrive
- Aligator clips
- Suitcase

**Optional accessories:**

- DESCRIPTION
- M16 6pin measuring adapter

INDEX

ZM-16