

НАЦІОНАЛЬНА АКАДЕМІЯ
НАУК УКРАЇНИ

ІНСТИТУТ ПРОБЛЕМ
МОДЕЛЮВАННЯ В ЕНЕРГЕТИЦІ
ім. Г.С. ПУХОВА

03164, м. Київ-164, вул. Генерала Наумова, 15

Телефон: (044) 424-10-63

Факс: (044) 424-05-86

E-mail: ipme@ipme.kiev.ua

NATIONAL ACADEMY
OF SCIENCE OF UKRAINE

G.E. PUKHOV INSTITUTE FOR
MODELLING IN ENERGY
ENGINEERING

15 General Naumova, Str., 03164, Kyiv, Ukraine

Phone: +38(044) 424-10-63

Fax: +38(044) 424-05-86

E-mail: ipme@ipme.kiev.ua



WaveParametricPipeLineLeakDetection is the development and implementation of a new complex method for determining the coordinates of damage to urban underground pipelines of water supply and heating networks. The original thermo-acoustic leak detector, parametric wave correlation leak detector and multi-parameter probe are used. The technique should allow to significantly increase the productivity and reliability of accurate detection of leak coordinates, to eliminate errors. The consumers of the new hardware and software complex will be the operating and repair services of the municipal economy. In post-war conditions, the urgency of accelerating work to restore urban infrastructure and reduce costs is increasing.

Parametric wave correlation leak detector

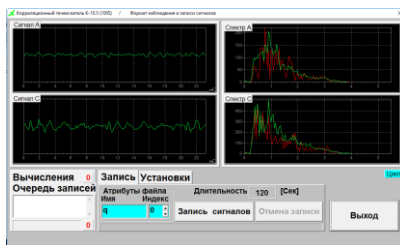


1

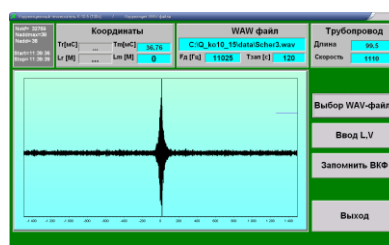


2

3



4



5



6

- 1 - Operator block. 2 - Remote radio units. 3 - Vibration sensors (2 pcs.).
4 - Signal observation. 5 - Correlation. 6 - Parametric analysis.

Thermo-acoustic leak detector



1



2



3



4

1 - Transport and working packaging. 2 - Operator block.
3 - Vibration sensor. 4 - Thermal radiation sensor.