

LOKAL 200

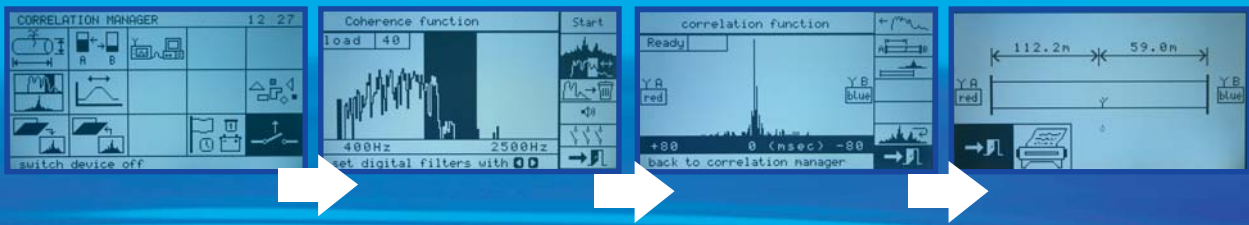


The FAST logo is a stylized white wave shape with the letters 'F' and 'S' on the left and 'T' on the right, all in a bold, sans-serif font.

FFT-Correlator LOKAL 200 - the latest Method of Leakage Detection

- portable
- automatic leakage detection feature
- user-friendly control features
- connections for geophone and testrod
- frequency analysis feature (coherence analysis)

D-74243 Langenbrettach
Bössingerstr. 36
Telefon ++49(0)7946/92100-0
Telefax ++49(0)7946/7153
eMail info@fastgmbh.de
Internet www.fastgmbh.de



F A S T

FFT-Correlator LOKAL 200

Measuring Principle

Operation of the F.A.S.T.-LOKAL 200 leakage detection system is based on the principle of the frequency-dependent correlation/coherence analysis. The pressurized medium inside the pipe generates a leakage-borne noise at the leakage spot. This noise travels in both directions through the pipe and is detected by highly sensitive sensors which are mounted at accessible places such as hydrants, valves, etc. The amplified pick-up signal is radio-transmitted to the coherence/correlator and converted by FFT algorithms into a cross performance spectrum and a coherence function respectively. After further modification, this spectrum/function is displayed on the LCD.

LOKAL 200 - Leakage Detection with state-of-the-art Technology

- integrated operator prompting
- highly sensitive water-/solid-borne noise pick-ups
- outstanding positioning accuracy, also on PE and PVC
- suppression of disturbing noises
- reflecting spots do not lead to any misdiggings
- trouble-free performance on network sections with varying pipe materials

Distinctive Feature

The LOKAL 200 is not only a first-class correlator. For the first time in leakage detection technology it is also possible to connect a high-performance geophone and a testrod to an FFT correlator. Even the frequency generated by the detected noises can be displayed.

Technical Specifications

display	LCD screen, microprocessor-controlled
dat acquisition	DSP 56001 by Motorola 20 MHz clock frequency, 2,048 Pkt. FFT in 3.4 msec.
AD converter	16 bit, 64-fold oversampling, integrated half-band-pass filter steps
low-pass filters	fixed pre-filter steps with 5,000 / 2,500 / 1,250 / 625 / 312 / 156 / 78 Hz; adjustable digital filters for data evaluation purposes
high-pass filters	fixed pre-filters with 20 / 60 / 100 / 140 / ... / 6,000 Hz; adjustable digital filters for data evaluation purposes
amplification	1-/2-/4-/8-/16-/32-fold programmable amplification
monitor display	correlation, coherence



ISO 9001:2000

Specifications are subject to change