

AC Digital

Leak noise correlator

The new AC Digital combines the power, graphics and ease of use of a PC based leak noise correlator with the portability and durability of a ruggedized handheld control unit. The system builds on the proven reputation of previous FCS Correlators and includes advanced features to maximize performance.

Leak noise is digitised at source in the sensor itself, which protects the noise from any signal degradation. In addition, the radio transmission is also digital in order to ensure that the quality of signal is maintained throughout the final processing. Digital radio technology means that two-way communication with the base unit is possible, allowing the outstation status to be displayed and controlled from the base to minimise visits to the outstations.

The unit features a high visibility colour display with advanced software including automatic three-outstation functionality for improved pinpointing results and reduced dry holes. This enables automatic velocity measurement, multiple correlation results for cross checking and a greater distance to be covered in a single correlation. New radio outstations are available to give more compact packaging and portability.

For a digital Correlator that delivers maximum performance, ease of use and is designed for daily deployment, the powerful AC Digital is a clear choice.



KEY BENEFITS

- PC functionality in a dedicated unit.
- New base station and outstations.
- Automatic 3 outstation correlation.
- Automatic velocity measurement.
- Fewer dry holes.
- High visibility colour screen.
- Enhanced graphics and ease of use.
- Multi-filtering - auto correlation across the filter range.
- Low frequency response to enable the correlator to work effectively on plastic and large diameter pipelines.
- 16 bit signal description allows the user to pick out weak leak noise from high background noise levels.



ASSOCIATED TECHNICAL SERVICES LTD.

Leak Detection Specialists - Est. 1979
Equipment Sales, Expert Training
After - Sale Technical Support
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ENVIRONMENTAL MONITORING

PRESSURE CONTROL

LEAK DETECTION

DATA LOGGING

FLOW MEASUREMENT

AC Digital

Leak noise correlator

Fully digital leak noise correlator featuring purpose designed rugged housings, available with 1, 2 or 3 radio outstations.

CONTROL UNIT

Process	Full digital correlation
Filter selection	Multi-filtering Pipe-data related default settings
Resolution	± 0.1m
Display	Full Color VGA
Size of Screen	6.5"
Antennae	External antenna/magmount
Mixed material	Up to 6 sections
Correlation files	Up to 100 files stored
Bat. level indication	On central unit for CPU and outstations
Battery type	Rechargeable Lithium ion batteries, Field replaceable
Battery life	8 hours (rechargeable)
Type of keypad	Elastomeric Membrane
Key functions	Full post-processing Combined correlation/survey mode Listen (acoustic survey) Frequency analysis Peak suppression Multi-filtering Auto velocity measurement with tricorrelation option User definable pipe types & velocities
Language	Selectable via menu
Operating software	Windows CE. Using floating point arithmetic, high resolution viewing display. User upgradeable from www.hwm-water.co.uk.
Printer output	RS232 to parallel printer
PC download	Via PC software, Windows-compatible software with Post processing capability
Dimensions	Height to Top: 10.3" (261mm) Width: 7.3" (185mm) Depth: 3.5" (88mm)
Weight	4lb (1.8kg)
Operating temp.	5F – 122F (-15°C to +50°C)
Environmental	IP65

Enclosure	Fully injection-moulded ABS
Connectors	Military specification Amphenol
Diagnostics	Self-test and auto-calibration on power-on

OUTSTATION

Optional 1, 2 or 3 Radio Outstation Systems

Radio comms	Fully digital transceiver
Radio Freq.	UHF (local regulations apply) Digital Radio
Controls	ON/OFF (all functions remotely controlled and monitored from Control Unit) LED status light
Connections	Headphones, External antenna
Battery type	Rechargeable Lithium ion batteries Field replaceable
Battery life	8 hours (rechargeable)
Antenna	External antenna
Portability	Carry strap mounted to outstation, carry satchels
Dimensions	L 7.2" (183mm) W 5.3" (135mm) D 2" (50mm)
Weight	1.9lb (875.6g)
Environment	IP65
Housing	Fully injection-moulded ABS
Connectors	Military specification Amphenol

SENSOR

Type	Digital sensor Integral high strength magnet
Environment	IP68, rubber shroud for shock protection
Connection	3m cable with strain relief Military spec connector
Digital Hydrophones	Available as option

FCS reserve the right to change the specification of any product without prior notice.

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