

# 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  
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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

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

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

### OUTSTATION

Optional 1, 2 or 3 Radio Outstation Systems

<b>Radio comms</b>	Fully digital transceiver
<b>Radio Freq.</b>	UHF (local regulations apply) Digital Radio

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

<b>Type</b>	Digital sensor Integral high strength magnet
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<b>Environment</b>	IP68, rubber shroud for shock protection
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<b>Connection</b>	3m cable with strain relief Military spec connector
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<b>Digital Hydrophones</b>	Available as option
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FCS reserve the right to change the specification of any product without prior notice.

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