ENIGMA 3HYQ-IOT

A state-of-the-art, accurately-time-synchronised, correlating, noise logger for pinpointing leaks remotely in large diameter pipes, whether made of metal or non-metal

SENSOR

Type	Integral accelerometer
Sensitivity	30V/g
Frequency range	1 – 2500Hz
Attachment	Integral magnet

SAMPLING

Measurement period	One epoch per night
Resolution	12-bit
Data memory	8MB static RAM

LOCAL COMMUNICATIONS

Type	Infra-red
Range	0.5 metre
Programming	Via Communications Module

2G / IoT COMMUNICATIONS

SIM type	Internal Nano SIM Holder
Transmission frequency (audio+data)	Once per day
Antenna	Penta band
IoT Connectivity	IoT modem suitable for Cat M1 or NB-IoT. Auto-fallback to 2G if IoT is not available

BATTERY

Type	Lithium Thionyl Chloride (non-rechargeable)
Operating life	5 years (dependant upon GSM signal strength and retries)

PHYSICAL

Waterproof rating	Robust aluminium enclosure to IP68 (submersible to 1 metre)
Operating temperature range	-20°C to 70°C
Dimensions (without antenna)	123mm x 58mm diameter
Weight	481 grams

CORRELATION RESULTS

Data storage	WAV files stored in Atrium Cloud
Platform	Atrium perating on an internet browser (Chrome recommended)

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