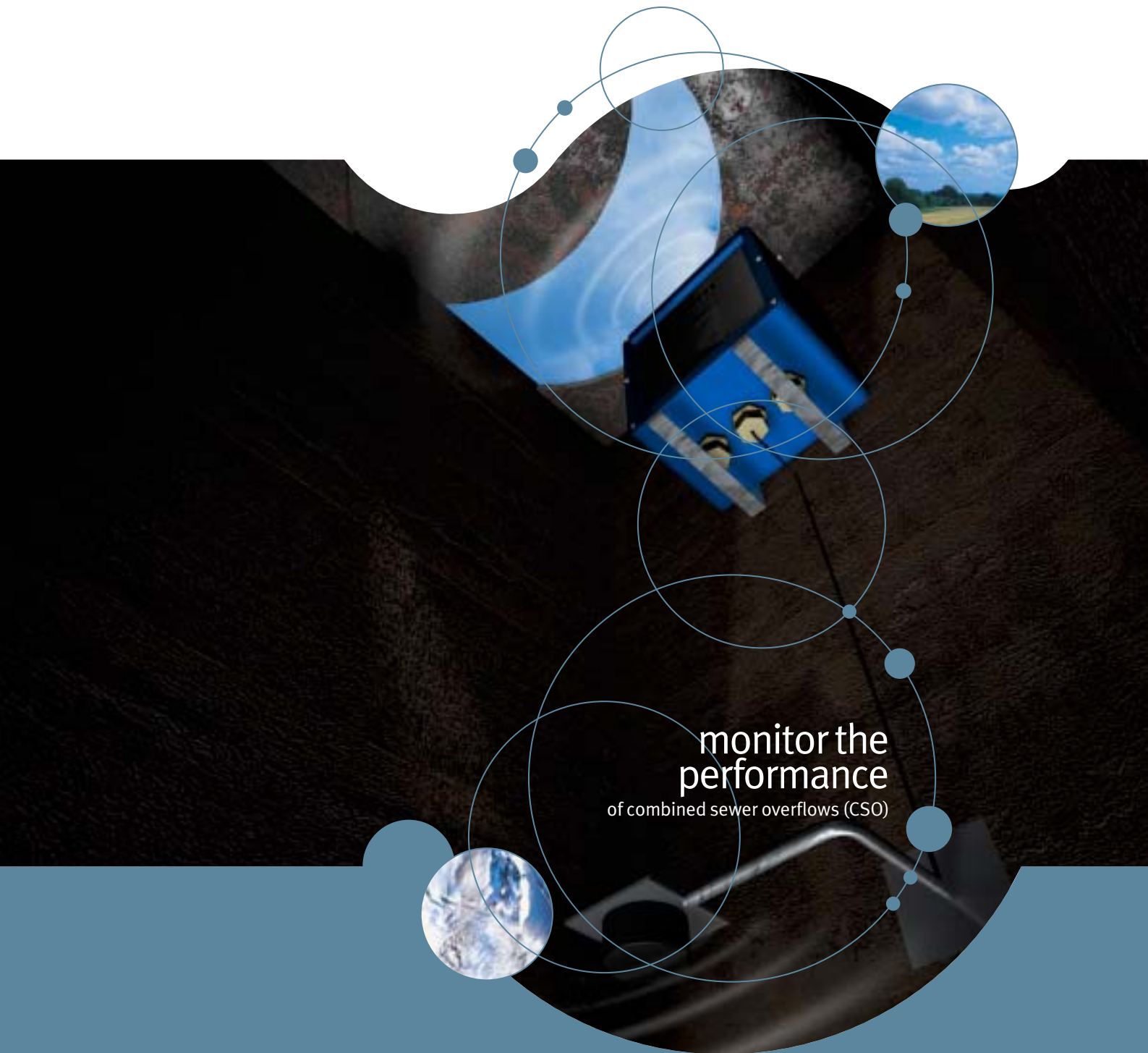




# HAWKEYE



monitor the  
performance  
of combined sewer overflows (CSO)

HawkEye is the first fully integrated system designed, developed and manufactured specifically to monitor the performance of Combined Sewer Overflows (CSO).

Fully tested and certified to ATEX standards for installation in potentially explosive environments, HawkEye can be located entirely within the confined space of a CSO chamber.

In addition to continuously measuring water levels, HawkEye has an inbuilt ability to generate alarms at key threshold or overflow levels.

Intended for use in operational work schedules as well as overflow compliance monitoring, HawkEye uses a non-contact ultrasonic sensor to measure levels – minimising maintenance visits and fouling problems.

## TELEMETRY

HawkEye's communication structure has been designed to integrate with already established asset monitoring and alarm systems within water companies via the use of MODBUS protocols.

To facilitate remote communications HawkEye is available with a variety of communication interfaces. Communications are supported through GSM, GPRS and low-power radio. Outside the hazardous area, PSTN and satellite communications are also supported.

Future firmware or upgrade requirements can easily be implemented, as the whole of HawkEye's structure can be reprogrammed remotely using the communications interface.

## DESIGNED FOR HAZARDOUS AREAS

HawkEye is housed within a flameproof enclosure with a minimum IP68 sealing standard that is approved for Zone I Group II 2 G hazardous locations.

The monitor can be installed within the CSO chamber in order to remove the need for expensive road cuts and pavement enclosures.

## NON-INTRINSICALLY SAFE

A non-intrinsically safe version is available, if required, with roadside kiosks or remote underground chambers used to house the data logger and power supply.

HawkEye has been developed in conjunction with Isodaq, a division of Hydro-Logic






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The whole of HawkEye's structure can be  
**reprogrammed remotely**  
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**HAWKEYE**

Series:	1000
Serial Number:	0075
Year:	2003

EEx d IIB T4  
TA = -20°C to +60°C  
SIRA 00ATEX1123  
II 2 G  
CE 0156

HawkEye is housed within a  
**flameproof**  
enclosure with a minimum IP68  
sealing standard that is approved for  
Zone 1 Group II G hazardous locations

## MONITORING/TECHNICAL SPECIFICATIONS

### SYSTEM SPECIFICATIONS

<b>Hazardous area approval</b>	EExd [ia] IIB T6 (Zone 1)
<b>ATEX certificate</b>	SIRA 04ATEX1028X
<b>Sealing standard</b>	IP68 (up to one metre)
<b>Operating temperature range</b>	-20 to +60
<b>Enclosure</b>	Single enclosure and remote sensor
<b>Connectors</b>	Industrial Connectors (IP68)
<b>Power supply</b>	Six alkaline D cells, field replaceable
<b>Battery life (between replacement)</b>	Minimum one year (at five minute logging interval)

### SENSOR SPECIFICATIONS

<b>Sensor type</b>	Downward looking ultrasonic sensor
<b>Measurement range</b>	0.3 – 6 metres (minimum)
<b>Blanking range</b>	<0.3 metres
<b>Measurement uncertainty</b>	+/- 0.25% for MAX measurement span (or 6mm whichever is greater)
<b>Resolution</b>	3mm
<b>Beam angle</b>	12° +/- 2°
<b>Temperature compensation</b>	Internal
<b>Process connection</b>	M32 thread
<b>Sensor cable length</b>	10 metres as standard
<b>Float switch input</b>	ATEX approved float switch (volt free)

### DATA LOGGER SPECIFICATIONS

<b>Data logger type</b>	ISODAQ XL series logger
<b>Channels</b>	Single channel logger
<b>Memory capacity</b>	One month at one minute logging interval
<b>Memory type</b>	Non-volatile memory
<b>Firmware</b>	XF firmware, flash upgradeable

### COMMUNICATIONS

<b>Direct communication</b>	RS232 via cable
<b>Remote communication options</b>	GSM and GPRS
<b>Communications protocols</b>	MODBUS
<b>Alarm triggers</b>	User programmable: Spill event threshold Return to normal Low battery alarm
<b>Alarm outs</b>	Direct to client telemetry system Direct to IETG data bureau services Direct to user via multi number SMS Via Call Centre to Email.
<b>Dial outs</b>	User programmable: Automatic data retrieval Daily, system health check
<b>Interface</b>	Client telemetry system via direct dial and MODBUS protocol. ISODAQ Software. ISODAQ Alarm forwarder Software.



#### IETG Plc

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