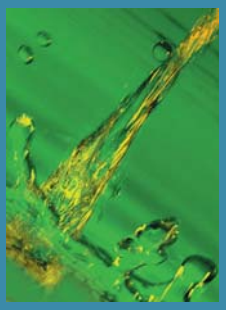
VIMPEX

Hydrosense Water Detection





Sprinklers

Computer Networks

Communication Centres

HVAC

IT Suites

Electronic Systems

Water-cooled Plant

EDP

Equipment Rooms

Hydrosense

Introduction

The Hydrosense Water Leakage Detection System is designed to protect areas where water ingress could seriously damage electrical, communication and computer networks. When installed in vulnerable areas it continuously monitors for water leaks.

Hydrosense can be installed in a wide range of applications including HVAC, sprinkler systems and water-cooled plant.



Water Detection

A Hydrosense System has two methods of leak detection, **Linear** or **Point**.

Linear detection is provided by Hydrowire water sensitive cables connected to the control panel via a special Connection Box using simple two core leader cable.

Available as standard 5 and 10 metre lengths, pre-terminated with DIN plugs, Hydrowire is a flexible cable which will continuously monitor large areas. When even a small amount of water comes into contact with Hydrowire it will trigger an alarm. Hydrowire will dry out in around 20 minutes for use again. Each zone requires a junction box and an end of line plug.

Point detection is provided by Floor or Drip Tray Probes also connected to the control panel by simple two core leader cable. The Floor Probe is fixed to the floor and adjusted to give the required detection level and connected to the control panel via a junction box. The Drip Tray Probe has exactly the same facilities as the Floor Probe but has a bracket for mounting onto the side of an ACU drip tray.

The Hydrowire and Probes are continuously monitored. Any disconnection or fault is immediately indicated on the control panel. All monitoring indicators can be repeated to remote repeater panels or via volt free contacts to a building management system.

When an alarm is raised, Fire-Cryer® voice sounders can be used to broadcast an unambiguous message avoiding confusion with other sounders on site.

Control Panels

The Hydrosense system has a range of attractive and unobtrusive control panels containing the alarm circuitry, power supply and the facility for 24 hour battery standby. There are two types of control panel. The Hydrosense HSCP is available in 2, 4 and 8 Zone configurations and the Hydrosense K200000 range for 12 Zones or greater. Flush versions and special finishes are also available.

Repeater panels and ancillary PCBs are available to provide common alarm, common fault, coincidence and zonal alarm. VFCs provide control of sub-systems, mimic panels and plant remotely from the main panel over a two wire data bus (see page 4 for the Matrix Mimic Panel).

Features

- Linear detection with Hydrowire
- Point detection with Floor and Drip Tray Probes
- 2 - 24 zone panels
- Choice of panel design and mounting
- Fully monitored detection and alarm circuits
- Easily installed, serviced and maintained
- Dedicated Fire-Cryer® 'Water Leakage' messages available
- Remote 'Water Alarm' lamp units available
- Auxiliary alarm contacts
- Monitored alarm outputs
- Battery backup



Hydrowire



Floor Probe



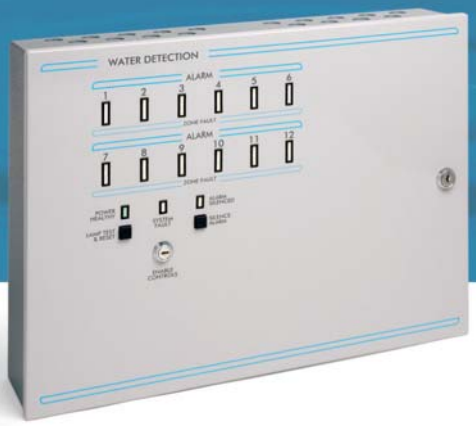
Remote Indicator

Junction Box



Fire-Cryer® Voice Sounder





HSCP Control Panel

Features

- Fully compliant with and tested to BS EN54-2 and BS EN54-4
- Available in 2, 4 or 8 zones
- Compatible for use on BS5839: Part 1: 2002 installations
- 2-wire repeaters and ancillary boards
- Fully programmable using simple menu options
- Simple, single board construction
- Installer friendly
- Two monitored sounder outputs
- 3 Amp power supply
- Auxiliary power output

Specification

Size:	385W x 310H x 90D mm
Construction:	1.2mm mild steel
Finish:	Epoxy powder coated
Colour - lid & box:	BS 00 A 05 grey (fine texture)
Colour - controls plate & labels:	RAL 7047 light grey (satin)
Supply voltage:	230V ac (+10%/-15%)
Mains supply fuse:	1.6A 250V
Power supply DC rating:	24V 3A
Maximum battery size:	7Ah 12V (2 per panel)
Fault contact rating:	30V dc 1A
Local fire contact rating:	30V dc 1A
Alarm contact rating:	30V dc 1A
Sounder output rating:	0.5A per output (max 1.6A over all outputs)
Detection zone current:	1.6mA
Detection zone EOL resistor:	6.8kΩ 5%
Sounder output EOL resistor:	10kΩ 5%
Cable capacity:	2.5mm² per terminal
Operating temperature:	-5°C to +50°C
Operating humidity:	<95% (non condensing)

Product Codes

HSCP-S-2:	2 zone Control Panel
HSCP-S-4:	4 zone Control Panel
HSCP-S-8:	8 zone Control Panel
HSCPR-S-2:	2 zone Repeater Panel
HSCPR-S-4:	4 zone Repeater Panel
HSCPR-S-8:	8 zone Repeater Panel

Larger control panels are available on request

K200000 Control Panel

Features

- Metal Enclosure - 12, 16 & 24 Zones, more available on request
- Common fire and fault contacts
- Remote signal contact and isolate
- Zonal one man test
- Zonal volt free contacts
- Zone isolate facility

Specification

Size -12 zone:	500W x 355H x 107D mm
Size - 16 & 24 zone:	570W x 420H x 110D mm
Construction:	1.2mm welded sheet steel
Finish:	Epoxy powder coated
Standard colour:	2 tone grey
Power supply:	2.5A
Zonal repeat contacts:	Volt free normally open 1A at 30V dc
Battery-12/16/24 zone:	7.0/12.0/12.0Ah Max.
Weight-12/16/24 zone:	8.6 /11.0 /11.5kg

Product Codes

K2012003:	12 zone control panel
K2016005:	16 zone control panel
K2024005:	24 zone control panel

Detection Accessories

Specification: Probes

Size:	95(max) 80(min)H x 45D x 100W mm
Indicator:	Green LED
Connection:	4 pin din with 1m flying lead
Material:	Black nylon

Product Codes

K2101:	Floor mounted probe
K2102:	Drip tray probe
K2103:	Remote indicator
K2104:	5 metre Hydrowire
K2105:	10 metre Hydrowire
K2106:	Hydrowire connection box
K2110:	End of line plug
K2111:	Leader cable 50m
K2112:	Fixing clips (100)
S 9615/A:	Protection Cage for Floor Probe
F/A/1W:	Fire-Cryer® water leakage alarm message

Matrix Mimic Panel

The Matrix Mimic Panel can be connected to any number of Hydrosense control panels and provides a clear, geographical indication of alarm activation enabling speedy identification of the source of an alarm.

The Matrix system uses flexible fibre optic light guides to illuminate areas on a floor plan laid over a high resolution grid. This unique system dispenses completely with wiring and enables indicators to be moved, removed or added on site. Matrix is housed in attractive, slimline enclosures and with high quality, full colour or monochrome floor plans.

All indicators can be configured to operate via switched positive or negative inputs providing compatibility with a wide range of input/output boards. Matrix can be supplied with or without common LEDs and controls. Optional LEDs indicate Power on, Fire and Fault and optional controls are for Buzzer silence and Lamp test.



Features

- Up to 320 LEDs can be controlled
- Select up to 12 printed colours (not including background and building outline)
- Available in a range of standard enclosures to suit any application
- Bespoke sized units can be made upon request
- Choice of Red, Green or Yellow LEDs
- Available with or without controls
- Matrix can easily be upgraded on site with minimal cost and effort
- EN54-4 approved PSU (optional)

About Vimpex

Vimpex are acknowledged experts in voice sounder and audible/visual evacuation technology. The Fire-Cryer® Voice Sounder is testimony to Vimpex's enthusiasm for innovation and a fresh approach to evacuation.

From its highly efficient distribution warehouse, Vimpex can supply this complete range of voice sounders, audible and visual alarms and accessories. All bells and sounders can be customer labelled, if required.

Commitment to third party approval and testing has meant massive investment both by Vimpex and its suppliers to gain LPCB approval on a growing mix of products including the MT sounders, Fire Alarm Bells, TriTone Sounder and ReSet Call Point.

Quality System Certificate No. 456
Assessed to ISO 9001:2000

Fire Industry Association

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DS/HYDS/ISS 1

VIMPEX
Shaping Alarm Technology

We reserve the right to change or amend any design or specification in line with our policy of continuing development and improvement.