Irish Safety Systems
DISTRIBUTORS TO THE FIRE INDUSTRY

hydrosense

Addressable Water Leak Detection

Hydrosense ID is an addressable water leak detection system, that offers both linear and point solutions using the Hydro-Wire or Hydro-Probe. Single and dual loop panels are available, with each loop supporting a maximum of 127 addressable devices. Our highly versatile leak detection module will support up to 50m of Hydro-Wire or one Hydro-Probe per circuit, with two circuits available per device. Control panel configuration also allows each leak detection module to be allocated a location-specific name.

Other loop-supported ancillaries include a mains relay controller which can be configured to control valves and plant equipment. An addressable remote indicator is also available.

Hydrosense ID Control Panels are equipped with both common Alarm and Fault relays, as well as battery backup.

Features

Addressable Control Panel:

- Both single and dual loop control panels available
- A single loop panel can support up to 254 Hydro-Probes, or over 12,000 m of Hydro-Wire
- A dual loop panel can support in excess of 500 Hydro-Probes and over 25,000 m of Hydro-Wire
- Control panel configuration allows each addressable device to be uniquely identified
- Remote outputs now fully configurable
- RS485 panel expansion bus supporting up to 32 additional accessories
- Cause and Effect output control via Loop Explorer 2 PC software
- Fully monitored sounder circuits
- Additional 8-Way relay board also available
- Battery Standby

Addressable Module:

- Integral Short Circuit Isolator
- Monitored for short circuit and open circuit
- Blue alarm LED and amber fault LED per circuit
- Zone sensitivity nominal/low selectable via DIL switches

Addressable Control Panel (IDAP-S-x)

IP Rating:	30
Finish:	Epoxy Powder Coated
Colour:	BS 00 A 05 grey - fine texture
Weight:	6kg
Mains Voltage:	110 or 230Vac, 50 or 60Hz
Mains Supply Fuse:	1.6A, 250V
Power Supply DC Rating:	24V, 3A
Aux 24V Supply:	Fused at 500mA
Max Battery Size:	9Ah/ 12V (x2 for 24V standby)
Sounder Output Rating:	Fused at 1A each
Panel Expansion Bus:	RS485
Dimensions (LxHxD):	385 x 310 x 90mm

Addressable Remote Indicator (ID-WLARI)

Operating Voltage:	17 - 41Vdc
Loop Current (when polled):	22mA
Alarm Current:	4.5mA (5.4mA Max)
Operating Temp.	-10 to +50 °C
Storage Temp.	-30 to +60 °C
Max Humidity:	95% HR (non-condensing)
Lens Colour/LED Colour:	Transparent-Clear/Amber
Weight:	88g
Dimensions (DiaxHxD):	100 x 38 x 46mm (With Base)

Addressable Leak Detection Module (ID-WLDM)

Current Consumption (ESP)

Quiescent at 41 V:	382uA
Alarm LEDs:	3mA per LED
Fault LEDs:	3mA per LED
SCI Active:	3.5mA
Polling:	22mA

Supply Voltage (ESP)

Loop Voltage (Low):	17 – 32Vdc
Loop Pulse Voltage:	7 – 9Vdc

Detection Circuit Characteristics

Short Circuit:	< 400Ω
Active Nominal Sensitivity:	≈ 37kΩ
Active Low Sensitivity:	≈ 18kΩ
Max Length of Hydro-Wire:	50m per circuit
EOL Device:	EOL Device: ID-WLDM-EOL
Dimensions (LxWxD):	160 x 115 x 45mm
Weight:	220g

Addressable Mains Relay Controller (ID-WLMRC)

Operating Voltage:	17 - 41Vdc
Current Consumption:	22mA (when polling)
Relay Contact Rating:	48Vdc, Max. 2A or 250Vac, Max 5A.
Input EOL Rating:	10,000Ω, 0.25W
Operating Temp Range:	-10 to +50 °C
Storage Temp.	-30 to +60 °C
Max. Humidity:	95% RH (Non-Condensing) at 40 °C
Weight:	325g
Dimensions (LxHxD):	157 x 127 x 35mm

Detection Components

Hydro-Wire (HYDW-05 & HYDW-10):

Colour:	Blue
Length:	5 and 10m
Termination:	New Easy Fit and Locking
Weight:	160g (5m) 320g(10m)

Hydro-Probe (ID-WLDP):

Colour:	Blue
Lead-in Cable:	1m
Weight:	120g

Hydro-Wire End of Line Device (ID-WLDM-EOL):

Colour:	Blue
Termination:	New Easy Fit and Locking
Weight:	20g

hydrosense®

Conventional Water Leak Detection

The Hydrosense HS conventional system offers both linear and point detection solutions, through both the Hydro-Wire and Hydro-Probe. Control Panel sizes range from two to eight detection zones, and each model includes two sounder circuits. An Ancillary PCB can also be fitted to provide local plant control or BMS integration, via up to 8 zonal relay contacts.

A seamless operation is assured by both battery backup and system fault monitoring. An alarm and/or fault condition will be signaled both visually and audibly.

Hydrosense HS is ideal for small to medium sized projects, with up to 50 metres of Hydro-Wire or 20 Hydro-Probes allowed per detection zone.

Features

- Fully monitored alarm and detection circuits
- New robust junction and connection boxes with plug 'n' play feature
- Simple to install and maintain
- New Hydro-Wire incorporates both enhanced durability and flexibility
- Up to 72 hour battery standby
- New probes include enhanced aesthetics and mechanical protection
- Common fault and alarm relay contacts available
- Connection and termination made even more simple

Conventional Control Panel

Mains Supply:	230Vac (100 Watts Max.)
Mains Supply Fuse:	1.6A, 250V
Output Voltage:	18.5 to 29Vdc
Battery Size Max:	12V, 7A/h (2 batteries are required)
Battery charge Voltage:	27.6Vdc (Nominal)
Battery charge Current	0.7A
Battery lead fuse:	20mm, 3.15A
Dedicated Sounder Circuits:	24Vdc, fused at 500mA
Relay contact rating:	30Vdc, 1A
Detection Circuit EOL:	6,800 Ohms, 0.50W
Sounder Circuit EOL:	10,000 Ohms, 0.25W
IP Rating:	30
Construction:	1.2mm Mild Steel
Finish:	Epoxy Powder Coated
Colour:	RAL 7047 Light Grey - Satin
Dimensions (LxHxD):	385 x 310 x 90mm

4-Zone Hydrosense HS
Control Panel

Detection Components

Hydrosense Connection Box:

Dimensions (LxHxD):	160 x 115 x 45mm (Inc. Housing).
Weight:	200g (Inc. Housing)
Colour:	Grey with Semi Transparent Cover
Hydro-Wire Acceptance:	50 Metres (Max.)

Hydrosense Junction Box:

Dimensions (LxHxD):	160 x 115 x 45mm (Inc. Housing).
Weight:	200g (Inc. Housing)
Colour:	Grey with Semi Transparent Cover
Max.	1 probe per Junction Box

Hydro-Cryer:

Weight:	220g
Current:	27mA
Voltage:	20 - 28Vdc
Dimensions:	See Fire-Cryer Datasheet DS/FCPLUS
IP Rating:	45 or 66

Hydro-Wire:

Colour:	Blue
Length:	5 and 10 Metres
Termination:	HS-HWCI-EOL
Weight:	160g (5m) and 320g (10m)

Hydrosense End of Line Plug:

Colour:	Blue
Termination:	New Easy Fit and Locking
Resistor Value:	6,800 Ohms
Power Rating:	0.50W
Weight:	20g

Hydro-Probe:

Colour:	Blue
Lead-in Cable:	1m (+/- 50mm)
LED Colour:	Blue (When in alarm)

Junction Box

Connection Box

Zone Breaker Cable

End-of-Line Plug

Hydro-Cryer

Hydro-Probe

Hydro-Wire

For more information on these products, please contact us:

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