

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

System Components

Hydrosense ID Addressable Control Panels:

IDAP-S-1-230	Single Loop Control Panel 230 VAC
IDAP-S-2-230	Dual Loop Control Panel 230 VAC
IDAP-S-R-24	Repeater Panel 24 VDC
IDAP-S-R-230	Repeater Panel 230 VAC
IDAP-LE1	Single Loop Expansion Card

Hydrosense ID System Components:

ID-WLDM	Addressable Module - Two Detection Circuits
ID-WLDP	Hydro-Probe - 1 m cable
HYDW-10	Hydro-Wire 10 m
HYDW-05	Hydro-Wire 5 m
ID-WLDM-EOL	Hydro-Wire ID End of Line Device
ID-WLMRC	Hydrosense ID Addressable I/O Module
ID-WLSCI	Hydrosense ID Loop Short Circuit Isolator
ID-SIO-16	Serial I/O module, 16 channel input/output
ID-SIO-8SR	Serial I/O module, 8-way relay
ID-SIO-4S	Serial I/O module, 4-way conventional zone
ID-WLARI	Hydrosense Addressable Remote Indicator

Hydrosense Conventional and Addressable Panel accessories:

VMIS-W	Secure Mains Isolator Switch - White
Hydrosense ID accessories:	
HY-WLDP-H	Hydro-Probe Height Adjustment Kit
HY-WLDP-DT	Hydro-Probe Drip Tray Mounting Kit
HY-WLDP-C	Protection Cage for Hydro-Probe
HY-FX	Fixing Clips for Leader Cable and Hydro-Wire, Screw fix (Pack of 100)
HY-FXSA	Fixing Clips for Leader Cable and Hydro-Wire, Screw or Adhesive fix (Pack of 100)
HY-ZB1	Zone Breaker/ Extension Lead 1 m
HY-ZB3	Zone Breaker/ Extension Lead 3 m
HY-ZB10	Zone Breaker/ Extension Lead 10 m

Alarm and Indicating Equipment:

HSVS	"Water Leakage Alarm Activated" - Voice Sounder
HY-WLSMC	Short Message Communicator for Remote Alarm via GPRS
HSSB1	Sounder/ Beacon (White Sounder with Blue Beacon)

Ancillary Equipment:

Y2.1-12	Yuasa Yucel Sealed Lead Acid Battery, 12 Vdc, 2.1Ah
Y7-12	Yuasa Yucel Sealed Lead Acid Battery, 12 Vdc, 7.0Ah
K2111	Leader Cable (50 m), Twin PVC, 0.75 m, Rating 3A.

Specification

Addressable Control Panel (IDAP-S-x)

IP Rating:	30
Finish:	Epoxy Powder Coated
Colour:	BS 00 A OS 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 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 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 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

Voice Enhanced Sounder

Hydro-Cryer (HSVS):

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