









## LEAKWISE SENSORS & CONTROLLERS

Leakwise is a series of oil sheen on water detection and oil on water monitoring systems. Leakwise sensors use a proprietary high-frequency electromagnetic energy absorption technology implemented on floating devices that follow water level accurately. Since water absorbs more electromagnetic energy than hydrocarbons, changes in the absorption rate of water indicate the presence or buildup of a hydrocarbon layer, starting as low as 0.3 mm.

A Leakwise system is comprised of a sensor (or multiple sensors) connected to a controller.

Model						
Feature	ID-221	ID-223/500	ID-223/2000	ID-223/2000/MR	ID-223/2500	ID-225
Oil sheen detection	≥ 0.3 mm	≥ 0.3 mm	≥ 0.3 mm	≥ 0.3 mm	≥ 0.3 mm	No
Oil layer monitoring	Up to 25 mm	Up to 20 mm	Up to 20 mm	Up to 20 mm	Up to 20 mm	Up to 200 mm
Min. water level	300 mm	40 mm	70 mm	Unlimited	70 mm	330 mm
Max water level	45 m	0.5 m	2 m to 5 m	Unlimited	2.5 m to 5.5 m	45 m
Oil monitoring in dry sumps	No	Yes	Yes	Yes	Yes	No
Indication of no liquid	Yes	Yes	Yes	Yes	Yes	Yes
Oil monitoring in groundwater wells	Yes	No	No	No	No	Yes
Oil monitoring in ponds	No	No	No	Yes	No	No
Max. lateral water flow with stilling well / guide	20 cm/sec	60 cm/sec	60 cm/sec	60 cm/sec	60 cm/sec	20 cm/sec
Total ext. diameter	87 mm	180 mm	560 mm	560 mm	280 mm	87 mm
Floating cage	No	No	Yes, S.S.	Yes, S.S.	Yes, P.P.	No




Operating water temperature: 0°C to 70°C, no freezing. SIL 1 approved (with SLC-220 controller).

Approved for operation in hazardous locations: Intrinsically Safe IIIG Ex ia IIC T4 Ga -40° C to +70° C, ATEX, UKEx, IECEx and cETLus

# LEAKWISE CONTROLLERS

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Feature \ Model	 PS-220	 SLC-220/Basic	 SLC-220/Multi
Processing technology	Analog	Digital	Digital
Max. number of supported sensors	1	2	4
Built-in self-diagnostics	Yes	Yes	Yes
Status lights	Yes, 4	Yes, 6	Yes, 6
Optional LCD with touch screen	No	Yes	Yes
Status relays, dry contacts, SPDT	Yes, 3 relays	Yes, 5 relays per sensor	Yes, 5 relays per sensor
Relay contacts rating at 250 VAC / 30 VDC	4 A (3 A for Fail relay)	6 A	6 A
4-20 mA analog output proportional to oil layer, current source	Yes (optional)	Yes	Yes
Bar Graph proportional to oil layer	Yes (optional)	Yes, on LCD	Yes, on LCD
Cellular alarming option	No	Yes	Yes
PC program for viewing, setting and data logging	No	Yes	Yes
Zener Safety Barriers option	Yes (external enclosure)	Yes	Yes
Serial ports: RS232 and RS485, Modbus protocol	No	Yes	Yes
Operating voltage 12/24 VDC or 110/220 VAC	Yes	Yes	Yes
Enclosure: IP65 / NEMA 4X or Exd Flameproof or NEMA 7 Explosion-proof or without enclosure	Yes	Yes	Yes

The above information refers to maximum controller configuration.

