

The INVALCO HSS 1036 Hydro Surveillance System is a filter fluorescence photometer with a fixed excitation bandpass source (365 nm) and an emission bandpass filter (460 nm). It is designed specifically for the quantitation of low ppm concentration measurements of aromatic hydrocarbons (oil) in water.

The HSS 1036 uses a UV fluorescence technique to target the aromatic component of the oil contamination. Through a site calibration this aromatic tag provides an indication relative to total oil. The sample vial is placed into the sample well. A non-contacting UV light source targets the sample with filtered light energy. The soluble and emulsified oils in the water will excite from this light energy and fluoresce light energy back out of the water at a signature wavelength. The intensity of light energy at this wavelength is measured to provide an indication of the ppm concentration.

Features and Benefits

- Solvent extraction qualifies sample to ISO and EPA methods
- Fast sample preparation and immediate readings
- Controlled and safe use of solvents
- Easy calibration and instrument set-up
- Reading printout serial port
- Bright backlit display of ppm readings
- Long life lamp
- No lag time, sample injection, or evaporation
- Ideal for site screening and process trend monitoring
- Compliments and supports existing laboratory results

Performance

The performance is based on the site calibration to a known hydrocarbon concentration in stable background water. Changes in hydrocarbon make-up and background stability may affect the output. Through a simple calibration, this unit correlates well with laboratory ISO and EPA methods.



Specifications

Power Requirements

Frequency

47 – 63 Hz

Line Voltage

90 – 260 VAC

Power Consumption

15 W

User Interface

2 line x 16 characters Backlit LCD, Membrane keypad

Communication Port

RS232C, 9 pin male serial connector, 1200 baud, 8 data bits, 1 stop bit, no parity

Dimensions

4.72 x 6.26 x 13.5 inches (12 x 15.9 x 34.3 cm) (h x w x d)

Weight

3.75 lbs (1.7 kg)

Operating Environment

Indoor Use 59°F to 104°F (15-40°C)

Relative humidity

80% for 59°F to 88°F (15 – 31°C)

Decreasing linearly to 50% for 88°F to 104°F (31 – 40°C)

Altitude

6562 ft (2000 m)

Light Source

Type

Mercury lamp

Excitation Wavelength

365 nm ± 7 nm at Full Width Half Maximum

Expected Life

5000 hours

Emission Filter Type

Interference filter

Emission Wavelength

460 nm \pm 15 nm at Full Width Half Maximum

Fuse Values (internal)

F3.15 A, 250 V, Microfuse (2) on PCB; F2 A, 250 V, 5 x 20 mm on power module

Safety Specifications

Safety

UL3101-1

CSA 22.2 No. 1010-1

EN61010

Emissions

FCC Part 15 Class A

EN55011 Class A

Immunity

EN50082-1

Listed by ETL Testing Lab

CE Marked

Note *This declaration of conformity is only valid for this instrument when it is:*

- *used in approved locations, and*
- *used as delivered from FMC Technologies except for alterations described in the User Manual*

Ordering Information

Please consult factory for Part Number and additional information.



www.fmcinvalco.com

The specifications contained herein are subject to change without notice and any user of said specifications should verify from the manufacturer that the specifications are currently in effect. Otherwise, the manufacturer assumes no responsibility for the use of specifications which may have been changed and are no longer in effect.

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