

# Hydrocarbon Fluorometer



## Main Features

- low weight
- easy handling
- corrosion free housing
- depth range up to 500 m
- output:
  - standard 0 – 10 Volt
  - optional serial output: RS-232
  - characteristics: 1200, o, 8, 1
- flash lamp control
- automatic compensation of dropping flash intensity
- optional:
  - data acquisition software SST / SDA
  - running under Windows® 95/98/Me

## Materials

- housing: titanium
- screws: stainless steel
- connector: titanium, neoprene

## Dimensions and weights

L (housing) 220 mm  
Ø (housing) 88 mm  
L (overall).....280 mm  
W (in air).....approx. 2,7 kg

# Specification

## Emitter

Light source:	Xenon flash lamp
Repetition rate:	15 / sec
Flash duration:	approx. 1 µsec
Flash energy:	7 mWsec
Discharge capacitor:	C = 100 nF
Discharge voltage:	380 Volt
CWL, BW:	254 nm, 25 nm
Lamp lifetime:	at 254 nm 50 % intensity drop 10 <sup>9</sup> flashes (3 years of continuous operation)

## Detector 1

Detector	UV photodiode
CWL:	360 nm
BW:	50 nm
PAH:	naphthalene, acenaphthene, phenanthrene, chrysene pyrene, anthracene, benzo(a).

## Fluorescence

## Detector 2

Detector	UV photodiode
CWL:	254 nm
BW:	25 nm

## Flash intensity

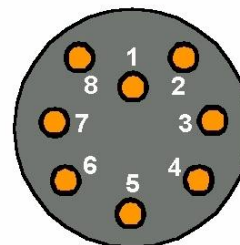
## Electronics

Supply voltage:	9 – 36 Volt
Current consumption:	180 mA (12 V), 100 mA (24 V), 70 mA (36 V)
Signal output:	0 – 10 Volt DC
Serial output:	RS-232, 1200, o, 8, 1 (optional)
Response time:	500 msec
U out 1:	high range fluorescence
U out 2:	low range fluorescence
U out 3:	flash intensity

## Connector pin assignment

PIN	Signal
1	+ 12 Volt (9 – 36 Volt DC)
2	0 Volt
3	output 2 (low range) 0 – 10 Volt DC
4	output 1 (high range) 0 – 10 Volt DC
5	A GND
6	flash lamp intensity (254 nm) 0 – 10 Volt DC
7	serial data
8	not connected

Subconn MC-BH-8M



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