

## Installed Tritium Monitor

# Cionix

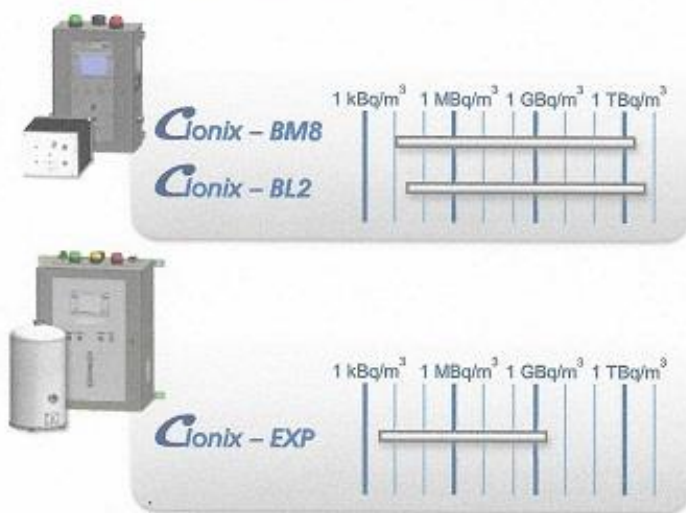
The monitor *Cionix* is used to measure continuous activity of Tritium and other  $\beta$  emitters in a gas for all applications of workplace monitoring, decommissioning, stack release or other applications.

Walled mounted, the monitor *Cionix* contains, in a small package, a complete Tritium monitoring channel.

It completes our range of monitors from the portable  *$\beta$  ionix* through the mobile *m ionix* by offering an installed solution ready to be connected in your plant.



### Measurement range for tritium



### ✓ PERFORMANCES

- limit of detection of tritium at 5 kBq/m<sup>3</sup>
- response time below 60 seconds
- real time measurement
- Self checking
- Integrated sound and light alarms

### ✓ SIMPLE

- Intuitive interface
- ready to install
- modular construction

### ✓ EASY MAINTENANCE

- minimal intervention
- quick change components
- simple  $\gamma$  source verification of system

## Technical Specification

# Cionix

### Technical Specification



**Cionix - BM8 / BL2**

#### GENERAL CHARACTERISTICS :

- Power supply : 24Vdc (Cionix - BM8 / BL2)  
220Vac (Cionix)
- touch screen with intuitive menus and universal symbols.
- audio and visual indication of alarm conditions.
- Export of measurements by Modbus or 4-20mA output.
- Ability to monitor and adjust flow rate.
- Input/Output assure by auto sealing Staubli gas connectors.
- In option : HTO & Noble Gas detection
- Wall fixing with quick release from wall plate.  
(Cionix - BM8 / BL2)

#### PERFORMANCE (TRITIUM)

- precision : 5 % of the measured value  $\pm 15 \text{ kBq/m}^3$  (BM8)  
5 % of the measured value  $\pm 5 \text{ kBq/m}^3$  (EXP)
- stability : 20 kBq/m<sup>3</sup> / an (BM8)  
5 kBq/m<sup>3</sup> / an (EXP)
- Zero offset :  $\pm 20 \text{ kBq/m}^3$  (BM8)  
 $\pm 5 \text{ kBq/m}^3$  (EXP)
- Noise :  $\pm 15 \text{ kBq/m}^3$  (BM8)  
 $\pm 5 \text{ kBq/m}^3$  (EXP)

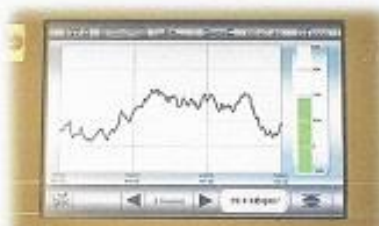


**Cionix - EXP**

#### ACCESSORIES

- exhaust coupling with filter and silencer
- entry filter
- external alarm beacon ...

### Tritium responses (PREMIUM Analyse Laboratory based on the standard NF EN 60761-1 et -5)



Response to 10 kBq/m<sup>3</sup> of tritium



Response to 30 kBq/m<sup>3</sup> of tritium



Response to 30 MBq/m<sup>3</sup> of tritium