

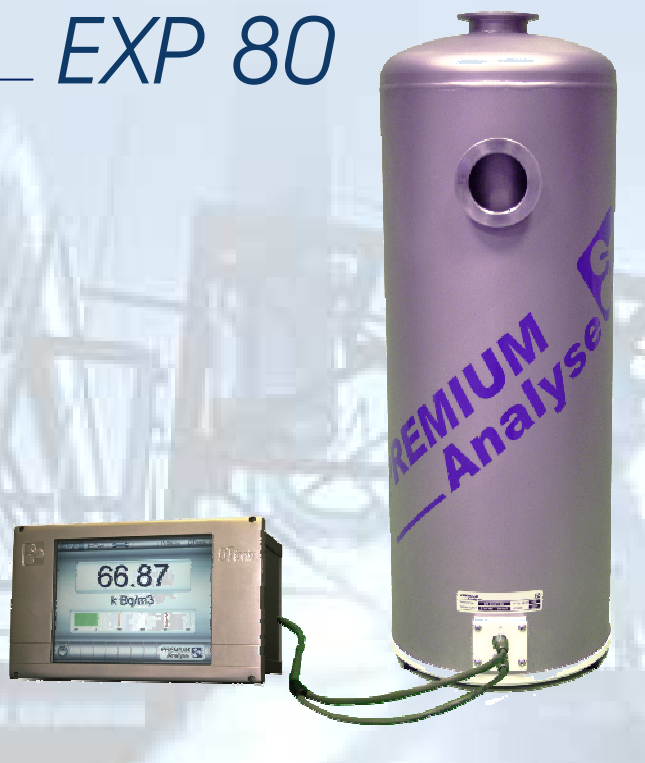


β activity transmitter

EXP 80

The **EXP 80** is intended to the measurements of atmosphere or air emissions. Compact and high-performance features, it gathers in one set: an **eight liter's** ionization chamber, a preamplifier and a very high resolution for current correction. Supplied by a standard power supply, it broadcasts the measurements and states information by a CAN-bus link.

Associated with the fixed **DT ionix** HMI, which can be fixed hundred meters away, it fully take profit of it all capacities, as well as the differential measurement, activity integration according the air flow, graphics charts, Data storage, Alarm levels,...



Practical Applications

Environment Monitoring

Process Control

Radioprotection

Decommissioning

Research and Laboratory

✓ SENSITIVITY

Tritium from 2.5 kBq/m³
Krypton from 270 Bq/m³
Radon from 3.9 Bq/m³

✓ SPEED

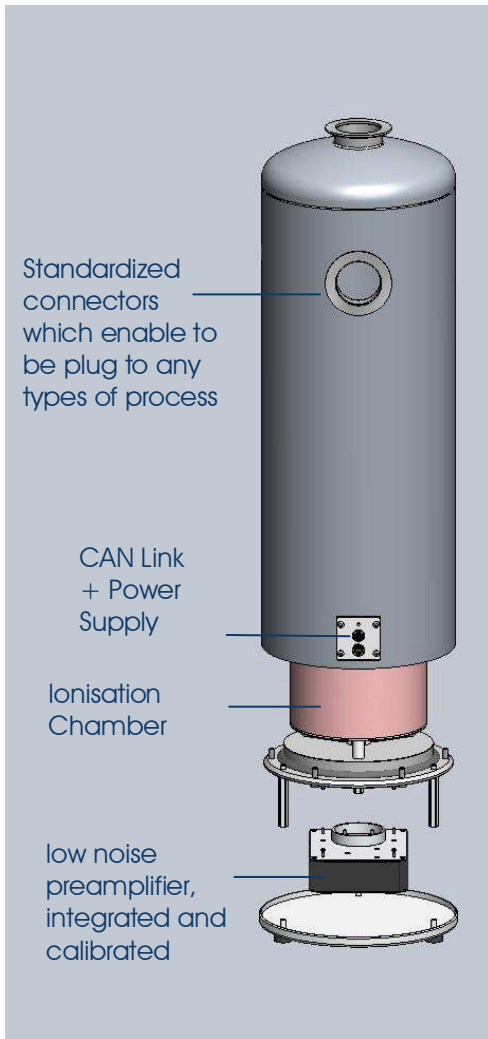
Response time < 20 sec

✓ EASY TO IMPLEMENT

Plug-and-Play
Easy decontamination and
Maintenance
Modularity



Technical specifications



SENSITIVITY

- response factor

Tritium	5 500 (Bq/m3)/fA
Krypton	611 (Bq/m3)/fA
Radon	8.60 (Bq/m3)/fA
- offset < 0.1 fA
- noise < 0.1 fA
- response time < 20 sec at 90% of the final value

IONIZATION CHAMBERS

- material stainless chamber AISI 304L electro-polished
- volume of the chamber 8 liters
- nominal flow 3 to 5 m3/h
- ionization voltage 150 VDC

PREAMPLIFIER : réf. SEP EXP PLN A0

- ionization current from 0.2 fA to 400 pA
- resolution 30 aA
- accuracy 0.5% measurement or +/- 0.2 fA
- stability 0.3 fA / year
- temperature influence 0.5 fA or 0.1% measurement between -5 & 40°C

GENERAL SPECIFICATIONS

- size Ø 219 mm x width 590 mm (excluding connectors)
- weight 19.5 kg
- implementation ground or wall with bracket (not supplied)
- operating temperature range 5 to 40 °C
- operating humidity range from 5 to 95 % rel.
- power supply 9.36 VDC, 300 mA
- power supply connector type LEMO ENG.1B.302.CLL
- measurement connector type LEMO ENG.1B.304.CLL
- gas connector in/out connector DN 50KF

Associated Device: DT ionix HMI



digital



graphics charts



alarms levels settings



The **DT ionix** HMI is intended to the electronic treatment and to the signals management of Tritium sensors **MLB**, **EXP** and **XPR** after acquisition and digitization by one or two preamplifiers.

ZAC Euro moselle
Rue de la Fontaine Chaudron
57140 NORROY LE VENEUR
FRANCE
tél. + 33 (0)3 87 51 31 75
fax + 33 (0)3 87 51 31 74
www . premium - analyse . fr