

*tritium online
analyzer*

DTionix



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β activity measurement



The **DT ionix** analyzer, designed with CEA Valduc, is able to measure online and in real time the activity of Tritium or other Beta gases (Kr85, Xe133, C14,...), in air.

Due to a large measurement range, an ultra high sensitivity and a dual ionization chamber, the **DT ionix** is the perfect device for your applications of radiation protection, environment survey and process control.

This quality is obtained by the complete expertise of our manufacturing process : ultra low current electronic device, feedthrough seals, ionization chamber.

benefits

✓ **advanced capabilities**

calculation of the activity, results displayed in digital and graphic mode on a coloured touch screen, dual measurement for gamma compensation.

✓ **large measurement range**

from 2500 Bq/m3 to 800 TBq/m3, automatic range switching, choice of the units RCA, LDCA or Bq/m3...(3 units among 15 possibilities).

✓ **full digital technology**

very high accuracy, long term stability, ultra high sensitivity, fast response.

✓ **easy to use**

factory calibration, plug and play, very intuitive navigation menu, **MODBUS / TCP-IP** network control.

✓ **compatible with existing installations**

analyzer compatible with all existing ionization chambers : 100cc, XPR, EXP type and other.

capabilities



Adapter for existing ionization chambers

Ionization chamber :
no drift, no noise, very fast response

Full digital high sensitivity preamplifier

Max distance
= 1200 m

Straight or multi directional feedthrough seals for glove box :
helium proof

Flanged feedthrough seal for process mounting

Configuration of MODBUS interface, of alarms 3, 4 and of alarm relay

Settings of alarms 1, 2 and status alarm :
test function, handling...

Graphic display with intuitive navigation menu. Display of the mean and max values, zoom

Plug-in unit for processing and display of the results
Digital display of activity. Bargraph with alarm levels

technical specifications

Measurement range	From 2500 Bq/m ³ to 1,6 PBq/m ³ *
Decades	5 or 8
Sensitivity	From 2Bq/m ³ *
Accuracy	+/- 1 %
Stability	2 kBq/m ³ / year *
Response time	90 % of final value reached within 15 seconds
Operating temperature range	From -5 °C to +40 °C
Operating humidity range	From 5 to 95 %
Power supply	230/110 VAC - 50/60 Hz - 100W
Communication distance	Max. 1200 m between preamplifier and electronic display
Auto control	Internal survey of temperature and voltages
Outputs	2 x 4-20 mA, Modbus / TCP-IP interface
Alarm outputs	4 level alarms + 1 status alarm
Display	Coloured touch screen, digital and graphic display
Data storage	On Compact Flash - capacity : 32 days of data

* All these values are valid for tritium and depend of the chosen configuration.

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