

# AT6101D

Portable instrument to measure and control effective specific activity of natural radionuclides in rocks and building materials without sampling

## Features

- 2- and 4- measuring (on surface and in holes)
- Spectrometric intelligent detection unit
- Automatic continuous built-in LED stabilization of spectrometer energy scale
- Saving and keeping up to 500 measured spectra
- Spectrometric data readout on matrix LCD of 128x64 with backlighting
- Special control panel
- PC interface
- Using under field conditions
- Temperature and impact-proof

# GAMMA RADIATION SPECTROMETER

Effective specific activity evaluation of natural radionuclides



## Specification

<b>Detector</b> scintillation NaI(Tl) .....	63x63 mm	<b>Operating temperature range</b> .....	-20 +50 °C
<b>Gamma radiation energy range</b> .....	50-3000 keV	<b>Operation mode</b>	
<b>Effective specific activity measurement range</b>		<b>setup time</b> .....	not more than 10 min
2- (surface) .....	100 - 10 <sup>4</sup> Bq/kg	<b>Protection class</b> .....	IP57
4- (hole) .....	50 - 10 <sup>4</sup> Bq/kg	<b>Radio disturbance characteristics</b>	
<b>Integral non-linearity</b> .....	not more than 1%	CEI/IEC CISPR 22:1997	
<b>Relative energy resolution</b>		<b>Electromagnetic compatibility</b>	
on gamma line of 662 keV .....	7,0 - 8,5%	CEI/IEC 61000-4-2:1995	
<b>Channel number</b> .....	512	IEC 61000-4-3:1995	
<b>Continuous operation time</b>		<b>Weight</b>	
AC mains, 220 V .....	not less than 24 h	detection unit (with protective box) .....	4,0 kg
built-in accumulator unit .....	not less than 14 h	processing unit .....	0,7 kg
<b>Temporal instability for 24h</b>		<b>Dimensions</b>	
<b>continuous operation</b> .....	not more than 3 %	detection unit	
<b>Intrinsic effective specific activity</b>		(with protective box) .....	134x494 mm
<b>measurement error</b> .....	not more than ±20%	processing unit .....	109x200x35 mm

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# ATOMTEX

INSTRUMENTS AND TECHNOLOGIES FOR  
NUCLEAR MEASUREMENTS AND RADIATION MONITORING