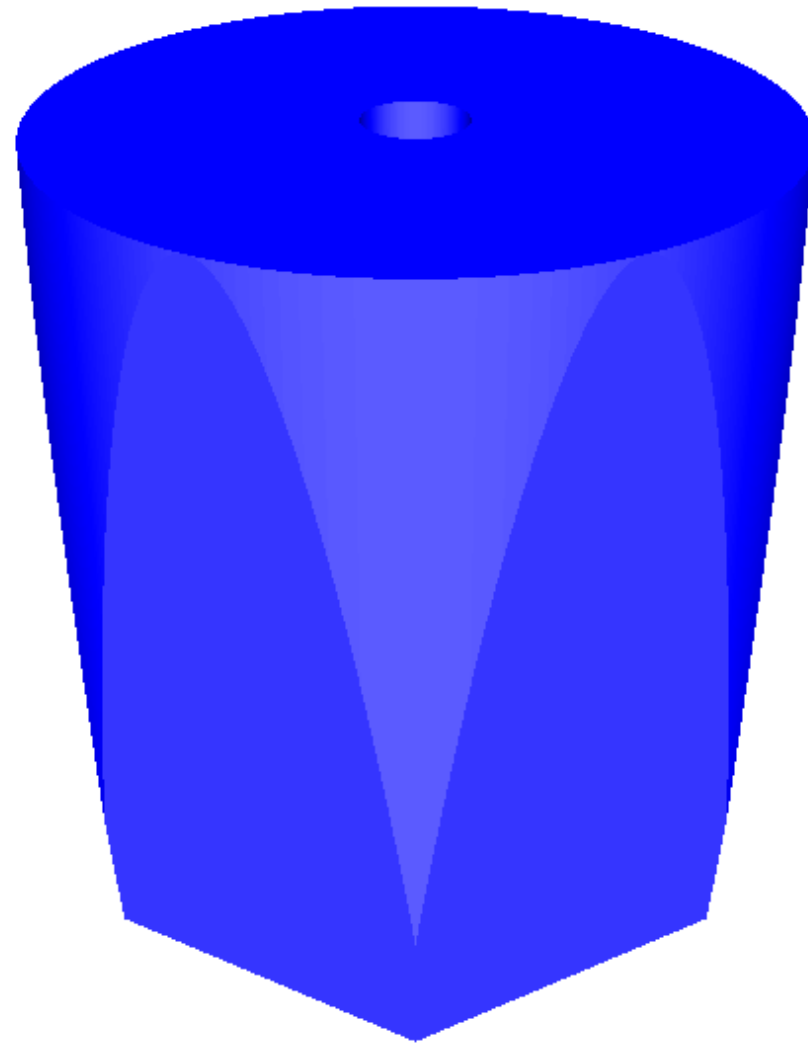


Nominal length = 78.00 mm, radius = 35.00 mm



Uncut: volume = 300.179 cm³, weight = 1597.854 g
Sensitive: volume = 266.806 cm³, weight = 1424.985 g

EURISYS MESURES

RESEAU EURISYS

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Kolm 1

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F 67834 TANNERIES CEDEX

SPECIFICATION SHEET FOR N TYPE SEG6 COAXIAL GERMANIUM DETECTOR :

EGC SEG6

N° 601

Serial number : 72860

Operating high voltage : + 4000 V , polarity POSITIVE

Total Energy Detection characteristics :

Energy :	122 keV	1332 keV
Measured resolution in keV :	1.05	2.08

Characteristics at 1332 keV :	Relative efficiency	Peak/Compton ratio	FWTM/FWHM ratio	FWFM/FWHM ratio
Measured value :	60 %	66	1.86	2.59

Position Detection characteristics :

POSITION	P1	P2	P3	P4	P5	P6
Measured resolution at 1332 keV in keV	2.9	3.4	3.4	2.8	2.9	3.0

Measurement conditions : Amplifier 7245, 4 μ s gaussian shaping time.
Count rate : 1000 counts per second.
Analog to digital converter 7602 with 8192 channels.

Geometrical characteristics of the germanium crystal :

Length : 78 mm
Dead layer : $\leq 0.5 \mu\text{Ge}$
Sensitive volume : 267 cm³

Checked by : Alberto TARCHINI
Date : 22 July 1997

A. Tarchini

FICHE DE SPECIFICATION DETECTEUR / DETECTOR SPECIFICATION SHEET
IDENTIFICATION DU MATERIEL / EQUIPMENT IDENTIFICATION :
DETECTEUR GERMANIUM COAXIAL SIX SEGMENTS / N TYPE SIX SEGMENTS COAXIAL GERMANIUM DETECTOR :
EGC SEG6 N° 72891
S/N° 603
HAUTE-TENSION DE FONCTIONNEMENT / OPERATING HIGH-VOLTAGE : + 4000 VOLTS
POLARITE / POLARITY : POSITIVE
CARACTERISTIQUES EN DETECTION / DETECTION CHARACTERISTICS :

LARGEUR À MI-HAUTEUR / FULL WIDTH AT HALF MAXIMUM :		122 keV	1332 keV	
RÉSOLUTIONS MESURÉES EN keV / MEASURED RESOLUTION IN keV :		1,05	2,15	
ETALONNAGE EN keV/CANAL / ENERGY CALIBRATION IN keV/CHANNELS		0,03	0,2	

PERFORMANCES À 1332 keV / SPECIFICATIONS AT 1332 keV	EFFICACITE RELATIVE / RELATIVE EFFICIENCY	PIC SUR COMPTON / PEAK TO COMPTON	RAPPORT / RATIO FWTM / FWHM	RAPPORT / RATIO FWFM / FWHM
VALEURS MESURÉES / MEASURED VALUE IN keV	62,0 %	65,0	1,93	2,92

SPECIFICATIONS AT 1332 KEV ON SEGMENTS	P1	P2	P3	P4	P5	P6
VALEURS MESURÉES / MEASURED VALUE IN keV	2,7	2,6	2,7	2,6	2,7	3,0

CONDITIONS DE MESURE / MEASUREMENT CONDITIONS :
AMPLIFICATEUR / AMPLIFIER : 2026
CONSTANTE DE TEMPS DE MISE EN FORME GAUSSIENNE / GAUSSIAN SHAPING TIME : 6 µs.
TAUX DE COMPTAGE / COUNT RATE : 1000 COUPS PAR SECONDE / COUNTS PER SECOND.
CONVERTISSEUR ANALOGIQUE DIGITAL / ANALOG TO DIGITAL CONVERTER : MULTIPORT II, 16324 CANAUX / CHANNELS.
ANALYSEUR MULTICANAL / MULTICHANNEL ANALYZER : MULTIPORT II N° 04031827
LOGICIEL D'ACQUISITION / ACQUISITION SOFTWARE : GENIE 2K, EURIWINNER 4.1
CARACTERISTIQUES GEOMETRIQUES DU CRISTAL / GEOMETRICAL CHARACTERISTICS OF THE CRYSTAL :

DIAMETRE EXTERIEUR / EXTERNAL DIAMETER : 69,3 mm	EPAISSEUR / THICKNESS : 77,1 mm
SURFACE UTILE / USEFUL SURFACE : 37,7 cm²	POIDS TOTAL / TOTAL WEIGHT : 1603 g
ZONE MORTE / DEAD LAYER : ≤ 0,5 µm/Ge	VOLUME UTILE / USEFUL VOLUME : 259 cm³

REMARQUES / REMARKS :

Date / Date :	Measured by :	Visa / Visa :	Approved by :	Visa / Visa :
21/06/2012	Laurent LECAT		Yvan HIETTER	

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SPECIFICATION SHEET FOR N TYPE SEG6 COAXIAL GERMANIUM DETECTOR :

EGC SEG6 N° 604

Serial number : 72892

LD 17P1

Operating high voltage : + 3500 V , polarity POSITIVE
To be applied by 1000 V steps maximum

Total energy detection characteristics :

Energy :	122 keV	1332 keV
Measured resolution in keV :	1.3	2.30

Characteristics at 1332 keV :	Relative efficiency	Peak/Compton ratio	FWTM/FWHM ratio	FWFM/FWHM ratio
Measured value :	55.0 %	56	1.88	2.49

Position Detection characteristics :

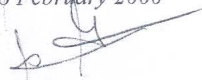
Positions	P1	P2	P3	P4	P5	P6
Measured resolution at 1332 keV in keV	2,60	2,65	2,7	2,7	2,8	2,8

Measurement conditions : Amplifier 7245, 4 μ s gaussian shaping time.
Count rate : 1000 counts per second.
Analog to digital converter 7602 with 8192 channels.

Geometrical characteristics of the germanium crystal :

Length : 75.5 mm Total weight : 1520 g
Dead layer : $\leq 0.5 \mu\text{Ge}$

*Checked by : Yvan HIETTER
Date : 18 February 2000*



Yolu II

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Fax : (33) 03 88 78 68 22

EURISYS MESSTECHNIK 

FIRMENGRUPPE EURISYS

Nahestraße 2-4, 55118 Mainz

Telefon (0 61 31) 960 990, Telefax (0 61 31) 960 994

**SPECIFICATION SHEET FOR N TYPE
SIX SEGMENT COAXIAL GERMANIUM DETECTOR :**

EGC SEG6

n° 606

Serial number : 72969

**Operating high voltage : + 4000 V , polarity POSITIVE
To be applied by 1000 V steps maximum**

Total energy detection characteristics :

Energy :	122 keV	1332 keV
Measured resolution in keV :	1.0	2.1

Characteristics at 1332 keV :	Relative efficiency	Peak/Compton ratio	FWTM/FWHM ratio	FWFM/FWHM ratio
Measured value :	61.3 %	58	2.05	3.05

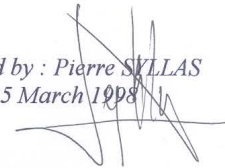
Positions	P1	P2	P3	P4	P5	P6
Measured resolution at 1332 keV in keV	2.5	2.6	2.9	2.8	2.9	2.7

Measurement conditions : Amplifier 7245, 6µs gaussian shaping time.
Count rate : 1000 counts per second.
Analog to digital converter 7602 with 8192 channels.

Geometrical characteristics of the germanium crystal :

Length : 78.4 mm Total weight : 1595 g
Dead layer : ≤0.5 µGe

Checked by : Pierre SYLLAS
Date : 25 March 1998



FICHE DE SPECIFICATION DETECTEUR / DETECTOR SPECIFICATION SHEET

IDENTIFICATION DU MATERIEL / EQUIPMENT IDENTIFICATION :

DETECTEUR GERMANIUM ENCAPSULE – HEXAGONAL - COAXIAL DE TYPE N - SEGMENTE EN 6 /
ENCAPSULATED – HEXAGONAL - 6 FOLD SEGMENTED - COAXIAL N TYPE GERMANIUM DETECTOR :

Eurisys EGC HEX SEG6 N° 607

Numéro de série détecteur / detector serial number : 72990

HAUTE-TENSION DE FONCTIONNEMENT / OPERATING HIGH-VOLTAGE : + 4500 VOLTS

POLARITE / POLARITY : POSITIVE

CARACTERISTIQUES EN DETECTION DU CRISTAL / FULL VOLUME DETECTION CHARACTERISTICS :

LARGEUR À MI-HAUTEUR / FULL WIDTH AT HALF MAXIMUM :	122 keV	1332 keV
RÉSOLUTIONS MESURÉES EN keV / MEASURED RESOLUTION IN keV :	1.11	2.05
ÉTALONNAGE EN keV/CANAL / ENERGY CALIBRATION IN keV/CHANNELS	0.037	0.18



PERFORMANCES À 1332 keV / SPECIFICATIONS AT 1332 keV	EFFICACITE RELATIVE / RELATIVE EFFICIENCY	PIC SUR COMPTON / PEAK TO COMPTON	RAPPORT / RATIO FWTM / FWHM	RAPPORT / RATIO FWHM / FWHM
VALEURS MESUREES / MEASURED VALUE	57.8%	63	1.94	2.7

LMH DES SEGMENTS / SEGMENT FWHM :	Garantie / guaranteed	1	2	3	4	5	6
RESOLUTIONS EN keV / RESOLUTION IN keV :	3.5	2.6	2.4	2.5	2.5	2.5	2.5

CONDITIONS DE MESURE / MEASUREMENT CONDITIONS :

AMPLIFICATEUR / AMPLIFIER : GAMMAFAST.
CONSTANTE DE TEMPS DE MISE EN FORME GAUSSIENNE / GAUSSIAN SHAPING TIME : 6µs.
TAUX DE COMPTAGE / COUNT RATE : 1000 COUPS PAR SECONDE / COUNTS PER SECOND.
CONVERTISSEUR ANALOGIQUE DIGITAL / ANALOG TO DIGITAL CONVERTER : GAMMAFAST, 16834 CANAUX / CHANNELS.
ANALYSEUR MULTICANAL / MULTICHANNEL ANALYZER : GAMMAFAST.
LOGICIEL D'ACQUISITION / ACQUISITION SOFTWARE : EURIWINNER 4.1
TEMPERATURE D'UTILISATION / OPERATING TEMPERATURE : -175 °C

REMARQUES / REMARKS :

Date / Date :	Nom / Name :	Approuvé / Approved
08-04-2004	Pierre Bendhif-Syllas 	Yvan HIETTER 

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**SPECIFICATION SHEET FOR N TYPE
SIX SEGMENT COAXIAL GERMANIUM DETECTOR :**

EGC SEG 6
n° 608
Serial number : 73217

**Operating high voltage : + 3500 V , polarity POSITIVE
To be applied by 1000 V steps maximum**

Total energy detection characteristics :

Energy :	122 keV	1332 keV
Measured resolution in keV :	1.2	2.3

Characteristics at 1332 keV :	Relative efficiency	Peak/Compton ratio	FWTM/FWHM ratio	FWFM/FWHM ratio
Measured value :	56%	60	1.95	2.75

Positions	P1	P2	P3	P4	P5	P6
Measured resolution at 1332 keV in keV	2.7	2.7	3.0	2.7	2.5	3.0

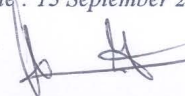
Measurement conditions : Amplifier 7245, 4 μ s gaussian shaping time.
Count rate : 1000 counts per second.
Analog to digital converter 7602 with 8192 channels.

Geometrical characteristics of the germanium crystal :

Length : 75.8 mm Total weight : 1518 g
Dead layer : $\leq 0.5 \mu\text{Ge}$

Checked by : Yvan HIETTER

Date : 13 September 2000





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SPECIFICATION SHEET FOR N TYPE
SIX SEGMENT COAXIAL GERMANIUM DETECTOR :

EGC SEG6
n° 610
Serial number : 73137

Operating high voltage : + 4000 V , polarity POSITIVE
To be applied by 1000 V steps maximum

Total energy detection characteristics :

Energy :	122 keV	1332 keV
Measured resolution in keV :	1.1	2.1

Characteristics at 1332 keV :	Relative efficiency	Peak/Compton ratio	FWTM/FWHM ratio	FWFM/FWHM ratio
Measured value :	59 %	66	1.84	2.55

Positions	P1	P2	P3	P4	P5	P6
Measured resolution at 1332 keV in keV	2.8	2.8	2.5	2.4	2.6	2.6

Measurement conditions : Amplifier 6300, 6 μ s gaussian shaping time.
Count rate : 1000 counts per second.
Analog to digital converter 7602 with 8192 channels.

Geometrical characteristics of the germanium crystal :

Length : 75 mm Total weight : 1527 g
Dead layer : $\leq 0.5 \mu\text{Ge}$

Checked by : Yvan HIETTER
Date : 21 September 2005

LMO

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SPECIFICATION SHEET FOR N TYPE SIX SEGMENT COAXIAL GERMANIUM DETECTOR :

EGC SEG6

n° 611

Serial number : 73007

**Operating high voltage : + 4000 V , polarity POSITIVE
To be applied by 1000 V steps maximum**

Total energy detection characteristics :

Energy :	122 keV	1332 keV
Measured resolution in keV :	1.2	2.2

Characteristics at 1332 keV :	Relative efficiency	Peak/Compton ratio	FWTM/FWHM ratio	FWFM/FWHM ratio
Measured value :	54 %	54	1.95	2.86

Positions	P1	P2	P3	P4	P5	P6
Measured resolution at 1332 keV in keV	2.6	2.6	2.7	2.5	2.7	2.5

Measurement conditions : Amplifier 7244, 6 μ s gaussian shaping time.
Count rate : 1000 counts per second.
Analog to digital converter 7602 with 8192 channels.

Geometrical characteristics of the germanium crystal :

Length :	75.5 mm	Total weight :	1480 g
Dead layer :	$\leq 0.5 \mu\text{Ge}$		

*Checked by : Yvan HIETTER
Date : 14 DEZEMBER 2001*

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EURISYS MESURES

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 Fax : (33) 03 88 78 68 22

SPECIFICATION SHEET FOR N TYPE SIX SEGMENT COAXIAL GERMANIUM DETECTOR :

EGC SEG6 n° 612 Serial number : 73001

Operating high voltage : + 3000 V , polarity POSITIVE
To be applied by 1000 V steps maximum

Total energy detection characteristics :

Energy :	122 keV	1332 keV
Measured resolution in keV :	1.1	2.1

Characteristics at 1332 keV :	Relative efficiency	Peak/Compton ratio	FWTM/FWHM ratio	FWFM/FWHM ratio
Measured value :	55.0 %	58.1	1.9	2.9

Positions	P1	P2	P3	P4	P5	P6
Measured resolution at 1332 keV in keV	2.6	2.6	2.7	2.7	2.7	2.8

Measurement conditions : Amplifier 7245, 4µs gaussian shaping time.
 Count rate : 1000 counts per second.
 Analog to digital converter 7602 with 8192 channels.

Geometrical characteristics of the germanium crystal :

Length : 76.4 mm Total weight : 1530 g
 Dead layer : ≤0.5 µGe

Checked by : *Pierre SYLLAS*
 Date : 29 June 1998

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SPECIFICATION SHEET FOR N TYPE
SIX SEGMENT COAXIAL GERMANIUM DETECTOR :

EGC SEG6
n° 613
Serial number : 73138

Operating high voltage : + 4000 V , polarity POSITIVE
To be applied by 1000 V steps maximum

Total energy detection characteristics :

Energy :	122 keV	1332 keV
Measured resolution in keV :	1.25	2.1

Characteristics at 1332 keV :	Relative efficiency	Peak/Compton ratio	FWTM/FWHM ratio	FWFM/FWHM ratio
Measured value :	52%	62	1.87	2.54

Positions	P1	P2	P3	P4	P5	P6
Measured resolution at 1332 keV in keV	2.45	2.7	2.4	2.5	2.4	2.7

Measurement conditions : Amplifier 7245, 4 μ s gaussian shaping time.
Count rate : 1000 counts per second.
Analog to digital converter 7602 with 8192 channels.

Geometrical characteristics of the germanium crystal :

Length : 75 mm Total weight : 1490 g
Dead layer : $\leq 0.5 \mu\text{Ge}$

Checked by : Yvan HIETTER
Date : 18 December 2001

Type FS	Ordre Commercial	Emetteur 010	Numéro Chrono	Format 4
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4, avenue des Frênes 78180 Montigny le Bretonneux

Division Détecteurs et Applications

FICHE DE SPECIFICATION DETECTEUR / DETECTOR SPECIFICATION SHEET							
IDENTIFICATION DU MATERIEL / EQUIPMENT IDENTIFICATION :							
DETECTEUR GERMANIUM ENCAPSULE – HEXAGONAL - COAXIAL DE TYPE N - SEGMENTE EN 6 / ENCAPSULATED – HEXAGONAL - 6 FOLD SEGMENTED - COAXIAL N TYPE GERMANIUM DETECTOR :							
Eurisys EGC HEX SEG6 N° 614							
Numéro de série détecteur / detector serial number : 73144							
HAUTE-TENSION DE FONCTIONNEMENT / OPERATING HIGH-VOLTAGE : + 4000 VOLTS							
POLARITE / POLARITY : POSITIVE							
CARACTERISTIQUES EN DETECTION DU CRISTAL / FULL VOLUME DETECTION CHARACTERISTICS :							
LARGEUR À MI-HAUTEUR / FULL WIDTH AT HALF MAXIMUM :				122 keV		1332 keV	
RÉSOLUTIONS MESURÉES EN keV / MEASURED RESOLUTION IN keV :				1.29		2.42	
ETALONNAGE EN keV/CANAL / ENERGY CALIBRATION IN keV/CHANNELS				0.037		0.18	
PERFORMANCES À 1332 keV / SPECIFICATIONS AT 1332 keV		EFFICACITE RELATIVE / RELATIVE EFFICIENCY		PIC SUR COMPTON / PEAK TO COMPTON		RAPPORT / RATIO FWTM / FWHM	
VALEURS MESUREES / MEASURED VALUE		56%		53		1.95	
LMH DES SEGMENTS / SEGMENT FWHM :		Garantie / guaranteed		1	2	3	4
RESOLUTIONS EN keV / RESOLUTION IN keV :		3.5	2.48	2.37	2.64	2.76	2.66
CONDITIONS DE MESURE / MEASUREMENT CONDITIONS :							
AMPLIFICATEUR / AMPLIFIER : GAMMAFAST.							
CONSTANTE DE TEMPS DE MISE EN FORME GAUSSIENNE / GAUSSIAN SHAPING TIME : 6µs.							
TAUX DE COMPTAGE / COUNT RATE : 1000 COUPS PAR SECONDE / COUNTS PER SECOND.							
CONVERTISSEUR ANALOGIQUE DIGITAL / ANALOG TO DIGITAL CONVERTER : GAMMAFAST, 16834 CANAUX / CHANNELS.							
ANALYSEUR MULTICANAL / MULTICHANNEL ANALYZER : GAMMAFAST.							
LOGICIEL D'ACQUISITION / ACQUISITION SOFTWARE : EURIWINNER 4.1							
TEMPERATURE D'UTILISATION / OPERATING TEMPERATURE : -175 °C							
REMARQUES / REMARKS :							
Date / Date :		Nom / Name :			Approuvé / Approved		
07-04-2004		Yvan HIETTER			Yvan HIETTER		



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SPECIFICATION SHEET FOR N TYPE
SIX SEGMENT COAXIAL GERMANIUM DETECTOR :

EGC SEG6
n° 616
Serial number : 73156

Operating high voltage : + 4000 V , polarity POSITIVE
To be applied by 1000 V steps maximum

Total energy detection characteristics :

Energy :	122 keV	1332 keV
Measured resolution in keV :	1.1	2.15

Characteristics at 1332 keV :	Relative efficiency	Peak/Compton ratio	FWTM/FWHM ratio	FWFM/FWHM ratio
Measured value :	58.9 %	61	1.92	2.88

Positions	P1	P2	P3	P4	P5	P6
Measured resolution at 1332 keV in keV	2.72	2.42	2.44	2.58	2.58	2.61

Measurement conditions : Amplifier TC245, 6 μ s gaussian shaping time.
Count rate : 1000 counts per second.
Analog to digital converter : Multiport II with 16324 channels

Geometrical characteristics of the germanium crystal :

Length : 76.3 mm Total weight : 1550 g
Dead layer : $\leq 0.5 \mu\text{Ge}$

Checked by : Laurent LECAT
Date : 16 June 2008

Parc des Tanneries
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**SPECIFICATION SHEET FOR N TYPE
 SIX SEGMENT COAXIAL GERMANIUM DETECTOR :**

**EGC SEG6
 n° 618
 Serial number : 73139**

**Operating high voltage : + 4000 V , polarity POSITIVE
 To be applied by 1000 V steps maximum**

Total energy detection characteristics :

Energy :	122 keV	1332 keV
Measured resolution in keV :	1.21	2.28

Characteristics at 1332 keV :	Relative efficiency	Peak/Compton ratio	FWTM/FWHM ratio	FWFM/FWHM ratio
Measured value :	51.4 %	55	1.86	2.67

Positions	P1	P2	P3	P4	P5	P6
Measured resolution at 1332 keV in keV	2.5	2.4	2.8	2.6	2.5	2.6

Measurement conditions : Amplifier 7245, 6µs gaussian shaping time.
 Count rate : 1000 counts per second.
 Analog to digital converter 7602 with 8192 channels.

Geometrical characteristics of the germanium crystal :

Length : 75 mm Total weight : 1554 g
 Dead layer : ≤0.5 µGe

*Checked by : Yvan HIETTER
 Date : 03 January 2002*

Type	Ordre Commercial	Emetteur	Numéro Chrono	Format
FS		010		4

4, avenue des Frênes 78180 Montigny le Bretonneux

Division Détecteurs et Applications

FICHE DE SPECIFICATION DETECTEUR / DETECTOR SPECIFICATION SHEET

IDENTIFICATION DU MATERIEL / EQUIPMENT IDENTIFICATION :

DETECTEUR GERMANIUM ENCAPSULE – HEXAGONAL - COAXIAL DE TYPE N - SEGMENTE EN 6 /
ENCAPSULATED – HEXAGONAL - 6 FOLD SEGMENTED - COAXIAL N TYPE GERMANIUM DETECTOR :

Eurisys EGC HEX SEG6 N° 619

Numéro de série détecteur / detector serial number : 73208

HAUTE-TENSION DE FONCTIONNEMENT / OPERATING HIGH-VOLTAGE : + 4000 VOLTS

POLARITE / POLARITY : POSITIVE

CARACTERISTIQUES EN DETECTION DU CRISTAL / FULL VOLUME DETECTION CHARACTERISTICS :

LARGEUR À MI-HAUTEUR / FULL WIDTH AT HALF MAXIMUM :	122 keV	1332 keV
RÉSOLUTIONS MESURÉES EN keV / MEASURED RESOLUTION IN keV :	1.06	2.25
ETALONNAGE EN keV/CANAL / ENERGY CALIBRATION IN keV/CHANNELS	0.035	0.20

PERFORMANCES À 1332 keV / SPECIFICATIONS AT 1332 keV	EFFICACITE RELATIVE / RELATIVE EFFICIENCY	PIC SUR COMPTON / PEAK TO COMPTON	RAPPORT / RATIO FWTM / FWHM	RAPPORT / RATIO FWHM / FWHM
VALEURS MESUREES / MEASURED VALUE	60%	62	1.87	2.6

LMH DES SEGMENTS / SEGMENT FWHM :	Garantie / guaranteed	1	2	3	4	5	6
RESOLUTIONS EN keV / RESOLUTION IN keV :	3.5	2.5	3.0	2.5	2.5	2.5	2.4

CONDITIONS DE MESURE / MEASUREMENT CONDITIONS :

AMPLIFICATEUR / AMPLIFIER : GAMMAFAST.

CONSTANTE DE TEMPS DE MISE EN FORME GAUSSIENNE / GAUSSIAN SHAPING TIME : 6µs.

TAUX DE COMPTAGE / COUNT RATE : 1000 COUPS PAR SECONDE / COUNTS PER SECOND.



CONVERTISSEUR ANALOGIQUE DIGITAL / ANALOG TO DIGITAL CONVERTER : GAMMAFAST, 16834 CANAUX / CHANNELS.

ANALYSEUR MULTICANAL / MULTICHANNEL ANALYZER : GAMMAFAST.

LOGICIEL D'ACQUISITION / ACQUISITION SOFTWARE : EURIWINNER 4.1

TEMPERATURE D'UTILISATION / OPERATING TEMPERATURE : -175 °C

REMARQUES / REMARKS :

Date / Date :	Nom / Name :	Approuvé / Approved
08-04-2004	Pierre Bendhif-Syllas 	Yvan HIETTER 

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EURISYS MESSTECHNIK 
FIRMENGRUPPE EURISYS
Nahestraße 2-4, 55118 Mainz
Telefon (0 61 31) 960 990, Telefax (0 61 31) 960 994

SPECIFICATION SHEET FOR N TYPE SIX SEGMENT COAXIAL GERMANIUM DETECTOR :

EGC SEG6 n° 620 Serial number : 73319

Operating high voltage : + 3500 V , polarity POSITIVE
To be applied by 1000 V steps maximum

Total energy detection characteristics :

Energy :	122 keV	1332 keV
Measured resolution in keV :	1.2	2.28

Characteristics at 1332 keV :	Relative efficiency	Peak/Compton ratio	FWTM/FWHM ratio	FWFM/FWHM Ratio
Measured value :	55.4 %	60	1.95	2.84

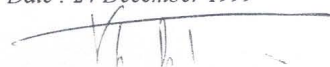
Positions	P1	P2	P3	P4	P5	P6
Measured resolution at 1332 keV in keV	2.8	2.9	2.8	2.7	2.7	3.0

Measurement conditions : Amplifier 7245, 6 μ s gaussian shaping time.
Count rate : 1000 counts per second.
Analog to digital converter 7602 with 8192 channels.

Geometrical characteristics of the germanium crystal :

Length : 76.9 mm Total weight : 1365 g
Dead layer : $\leq 0.5 \mu\text{Ge}$

*Checked by : Patrice ULRICH
Date : 24 December 1999*



Parc des Tanneries
1, Chemin de la Roseraie
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GERMANIUM DEPARTMENT
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Fax : (33) 03 88 78 68 22

For Mail :
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F 67834 TANNERIES CEDEX

SPECIFICATION SHEET FOR N TYPE SIX SEGMENT COAXIAL GERMANIUM DETECTOR :

EGC SEG6

n° 621

Serial number : 73362

Ku Lenners

Operating high voltage : + 4000 V , polarity POSITIVE
To be applied by 1000 V steps maximum

Total energy detection characteristics :

Energy :	122 keV	1332 keV
Measured resolution in keV :	1.0	2.15

Characteristics at 1332 keV :	Relative efficiency	Peak/Compton ratio	FWTM/FWHM ratio	FWFM/FWHM ratio
Measured value :	62.5 %	67	1.85	2.60

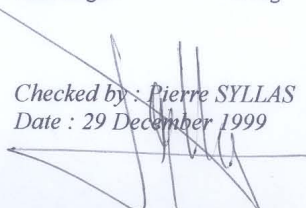
Positions	P1	P2	P3	P4	P5	P6
Measured resolution at 1332 keV in keV	2.4	2.4	2.9	2.5	3.0	2.5

Measurement conditions : Amplifier 7245, 6 μ s gaussian shaping time.
Count rate : 1000 counts per second.
Analog to digital converter 7602 with 8192 channels.

Geometrical characteristics of the germanium crystal :

Length :	77.4 mm	Total weight :	1590 g
Dead layer :	$\leq 0.5 \mu\text{Ge}$		

Checked by : Pierre SYLLAS
Date : 29 December 1999



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Fax : (33) 03 88 78 68 22

For Mail :

B.P. 311

F 67834 TANNERIES CEDEX

**SPECIFICATION SHEET FOR N TYPE
SEG6 COAXIAL GERMANIUM DETECTOR :**

EGC SEG6 N° 622

Serial number : 73219

**Operating high voltage : + 4500 V , polarity POSITIVE
To be applied by 1000 V steps maximum**

Total energy detection characteristics :

Energy :	122 keV	1332 keV
Measured resolution in keV :	1.25	2.25

Characteristics at 1332 keV :	Relative efficiency	Peak/Compton ratio	FWTM/FWHM ratio	FWFM/FWHM ratio
Measured value :	54.0 %	59.5	1.95	2.86

Position Detection characteristics :

Positions	P1	P2	P3	P4	P5	P6
Measured resolution at 1332 keV in keV	2.5	2.5	2.5	2.5	2.8	2.5

Measurement conditions : Amplifier 7245, 6 μ s gaussian shaping time.

Count rate : 1000 counts per second.

Analog to digital converter 7602 with 8192 channels.

Geometrical characteristics of the germanium crystal :

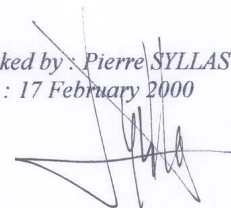
Length : 76.2 mm

Total weight : 1507 g

Dead layer : $\leq 0.5 \mu\text{Ge}$

Checked by : Pierre SYLLAS

Date : 17 February 2000



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**SPECIFICATION SHEET FOR N TYPE
 SIX SEGMENT COAXIAL GERMANIUM DETECTOR :**

EGC SEG6

n° 623

Serial number : 73059

**Operating high voltage : + 4500 V , polarity POSITIVE
 To be applied by 1000 V steps maximum**

Total energy detection characteristics :

Energy :	122 keV	1332 keV
Measured resolution in keV :	1.20	2.08

Characteristics at 1332 keV :	Relative efficiency	Peak/Compton ratio	FWTM/FWHM ratio	FWFM/FWHM ratio
Measured value :	51.7 %	55	1.95	2.8

Positions	P1	P2	P3	P4	P5	P6
Measured resolution at 1332 keV in keV	2.3	2.6	2.4	2.5	2.7	2.5

Measurement conditions : Amplifier 7245, 6 μ s gaussian shaping time.
 Count rate : 1000 counts per second.
 Analog to digital converter 7602 with 8192 channels.

Geometrical characteristics of the germanium crystal :

Length : 76 mm Total weight : 1468.2 g
 Dead layer : $\leq 0.5 \mu\text{Ge}$

*Checked by : Kimmo Jaaskelainen
 Date : 16 Juin 2002*

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SPECIFICATION SHEET FOR N TYPE
SIX SEGMENT COAXIAL GERMANIUM DETECTOR :

EGC SEG6

n° 624

Serial number : 73006

Operating high voltage : + 4000 V , polarity POSITIVE
To be applied by 1000 V steps maximum

Total energy detection characteristics :

Energy :	122 keV	1332 keV
Measured resolution in keV :	1.19	2.11

Characteristics at 1332 keV :	Relative efficiency	Peak/Compton ratio	FWTM/FWHM ratio	FWFM/FWHM ratio
Measured value :	61.5 %	58	1.95	2.85

Positions	P1	P2	P3	P4	P5	P6
Measured resolution at 1332 keV in keV	2.5	2.4	2.5	2.4	2.4	2.4

Measurement conditions : Amplifier 7245, 6 μ s gaussian shaping time.
Count rate : 1000 counts per second.
Analog to digital converter 7602 with 8192 channels.

Geometrical characteristics of the germanium crystal :

Length : 77.5 mm Total weight : 1513 g
Dead layer : $\leq 0.5 \mu\text{Ge}$

Checked by : Yvan HIETTER
Date : 10 January 2002

Type FS	Ordre Commercial	Emetteur 010	Numéro Chrono	Format 4
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4, avenue des Frères 78180 Montigny le Bretonneux

Division Détecteurs et Applications

FICHE DE SPECIFICATION DETECTEUR / DETECTOR SPECIFICATION SHEET

IDENTIFICATION DU MATERIEL / EQUIPMENT IDENTIFICATION :

DETECTEUR GERMANIUM ENCAPSULE – HEXAGONAL - COAXIAL DE TYPE N - SEGMENTE EN 6 /
ENCAPSULATED – HEXAGONAL - 6 FOLD SEGMENTED - COAXIAL N TYPE GERMANIUM DETECTOR :

Eurisys EGC HEX SEG6 N° 625

Numéro de série détecteur / detector serial number : 72550

HAUTE-TENSION DE FONCTIONNEMENT / OPERATING HIGH-VOLTAGE : + 4500 VOLTS

POLARITE / POLARITY : POSITIVE

CARACTERISTIQUES EN DETECTION DU CRISTAL / FULL VOLUME DETECTION CHARACTERISTICS :

LARGEUR À MI-HAUTEUR / FULL WIDTH AT HALF MAXIMUM :	122 keV	1332 keV
RÉSOLUTIONS MESURÉES EN keV / MEASURED RESOLUTION IN keV :	1.28	2.22
ETALONNAGE EN keV/CANAL / ENERGY CALIBRATION IN keV/CHANNELS	0.038	0.20

PERFORMANCES À 1332 keV / SPECIFICATIONS AT 1332 keV	EFFICACITE RELATIVE / RELATIVE EFFICIENCY	PIC SUR COMPTON / PEAK TO COMPTON	RAPPORT / RATIO FWTM / FWHM	RAPPORT / RATIO FWEM / FWHM
VALEURS MESURÉES / MEASURED VALUE	57%	60	1.88	2.7

LMH DES SEGMENTS / SEGMENT FWHM :	Garantie / guaranteed	1	2	3	4	5	6
RESOLUTIONS EN keV / RESOLUTION IN keV :	3.5	2.35	2.5	2.6	2.4	2.7	2.6

CONDITIONS DE MESURE / MEASUREMENT CONDITIONS :

AMPLIFICATEUR / AMPLIFIER : GAMMAFAST.

CONSTANTE DE TEMPS DE MISE EN FORME GAUSSIENNE / GAUSSIAN SHAPING TIME : 6µs.

TAUX DE COMPTAGE / COUNT RATE : 1000 COUPS PAR SECONDE / COUNTS PER SECOND.

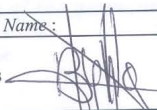

CONVERTISSEUR ANALOGIQUE DIGITAL / ANALOG TO DIGITAL CONVERTER : GAMMAFAST, 16834 CANAUX / CHANNELS.

ANALYSEUR MULTICANAL / MULTICHANNEL ANALYZER : GAMMAFAST.

LOGICIEL D'ACQUISITION / ACQUISITION SOFTWARE : EURIWINNER 4.1

TEMPERATURE D'UTILISATION / OPERATING TEMPERATURE : -175 °C

REMARQUES / REMARKS :

Date / Date :	Nom / Name :	Approuvé / Approved
08-04-2004	Pierre Bendhif-Syllas 	Yvan HIETTER 

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For Mail :
B.P. 311

F 67834 TANNERIES CEDEX

SPECIFICATION SHEET FOR N TYPE
SIX SEGMENT COAXIAL GERMANIUM DETECTOR :

EGC SEG6

n° 626

Serial number : 72642

Operating high voltage : + 4000 V , polarity POSITIVE
To be applied by 1000 V steps maximum

Total energy detection characteristics :

Energy :	122 keV	1332 keV
Measured resolution in keV :	0.99	2.10

Characteristics at 1332 keV :	Relative efficiency	Peak/Compton ratio	FWTM/FWHM ratio	FWFM/FWHM ratio
Measured value :	60.1 %	62	1.98	2.98

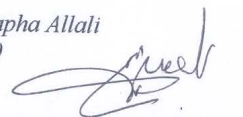
Positions	P1	P2	P3	P4	P5	P6
Measured resolution at 1332 keV in keV	2.5	2.45	2.4	2.4	2.5	2.4

Measurement conditions : Amplifier 7245, 6 μ s gaussian shaping time.
Count rate : 1000 counts per second.
Analog to digital converter 7602 with 8192 channels.

Geometrical characteristics of the germanium crystal :

Length : 76.7 mm Total weight : 1584 g
Dead layer : $\leq 0.5 \mu\text{Ge}$

Checked by : Mustapha Allali
Date : 11 July 2000





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SPECIFICATION SHEET FOR N TYPE
SIX SEGMENT COAXIAL GERMANIUM DETECTOR :

EGC SEG6

n° 627

Serial number : 73470

**Operating high voltage : + 4000 V , polarity POSITIVE
To be applied by 1000 V steps maximum**

Total energy detection characteristics :

Energy :	122 keV	1332 keV
Measured resolution in keV :	1.30	2.38

Characteristics at 1332 keV :	Relative efficiency	Peak/Compton ratio	FWTM/FWHM ratio	FWFM/FWHM ratio
Measured value :	58 %	56	1.92	2.64

Positions	P1	P2	P3	P4	P5	P6
Measured resolution at 1332 keV in keV	2.58	2.53	2.70	2.72	2.60	2.70

Measurement conditions : Amplifier 6300, 6 μ s gaussian shaping time.
Count rate : 1000 counts per second.
Analog to digital converter 7602 with 8192 channels.

Geometrical characteristics of the germanium crystal :

Length : 76 mm Total weight : 1568 g
Dead layer : $\leq 0.5 \mu\text{Ge}$

Checked by : Mustapha ALLALI
Date : 15 September 2005

EURISYS MESURES

Parc des Tanneries
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SPECIFICATION SHEET FOR N TYPE SIX SEGMENT COAXIAL GERMANIUM DETECTOR :

EGC SEG6

n° 628

Serial number : 73468

Operating high voltage : + 4000 V , polarity POSITIVE
To be applied by 1000 V steps maximum

Total energy detection characteristics :

Energy :	122 keV	1332 keV
Measured resolution in keV :	0.96	2.25

Characteristics at 1332 keV :	Relative efficiency	Peak/Compton ratio	FWTM/FWHM ratio	FWFM/FWHM ratio
Measured value :	61.9 %	64.5	1.95	2.85

Positions	P1	P2	P3	P4	P5	P6
Measured resolution at 1332 keV in keV	2.55	2.40	2.40	2.45	2.20	2.45

Measurement conditions : Amplifier 7245, 6 μ s gaussian shaping time.
Count rate : 1000 counts per second.
Analog to digital converter 7602 with 8192 channels.

Geometrical characteristics of the germanium crystal :

Length : 76.6 mm Total weight : 1576 g
Dead layer : $\leq 0.5 \mu\text{Ge}$

Checked by : Pierre SYLLAS
Date : 10 October 2000

*Parc des Tanneries
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For Mail :
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F 67834 TANNERIES CEDEX

SPECIFICATION SHEET FOR N TYPE SIX SEGMENT COAXIAL GERMANIUM DETECTOR :

EGC SEG6 n° 629 Serial number : 73473

**Operating high voltage : + 4000 V , polarity POSITIVE
To be applied by 1000 V steps maximum**

Total energy detection characteristics :

Energy :	122 keV	1332 keV
Measured resolution in keV :	1.15	2.15

Characteristics at 1332 keV :	Relative efficiency	Peak/Compton ratio	FWTM/FWHM ratio	FWFM/FWHM ratio
Measured value :	58.5 %	61	1.97	3.30

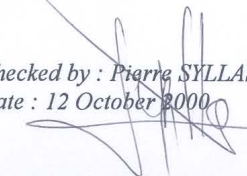
Positions	P1	P2	P3	P4	P5	P6
Measured resolution at 1332 keV in keV	2.45	2.60	2.35	2.40	2.50	2.35

Measurement conditions : Amplifier 7245, 6 μ s gaussian shaping time.
Count rate : 1000 counts per second.
Analog to digital converter 7602 with 8192 channels.

Geometrical characteristics of the germanium crystal :

Length : 76.6 mm Total weight : 1553 g
Dead layer : $\leq 0.5 \mu\text{Ge}$

*Checked by : Pierre SYLLAS
Date : 12 October 2000*



FICHE DE SPECIFICATION DETECTEUR / DETECTOR SPECIFICATION SHEET

IDENTIFICATION DU MATERIEL / EQUIPMENT IDENTIFICATION :

DETECTEUR GERMANIUM ENCAPSULE – HEXAGONAL - COAXIAL DE TYPE N - SEGMENTE EN 6 /
ENCAPSULATED – HEXAGONAL - 6 FOLD SEGMENTED - COAXIAL N TYPE GERMANIUM DETECTOR :

EGC HEX SEG6 N° 632

Numéro de série détecteur / detector serial number : **73610**

HAUTE-TENSION DE FONCTIONNEMENT / OPERATING HIGH-VOLTAGE : **+ 4000 VOLTS**

POLARITE / POLARITY : **POSITIVE**

CARACTERISTIQUES EN DETECTION DU CRISTAL / FULL VOLUME DETECTION CHARACTERISTICS :

LARGEUR A MI-HAUTEUR / FULL WIDTH AT HALF MAXIMUM :	122 keV	1332 keV
RESOLUTIONS GARANTIES EN keV / GUARANTEED RESOLUTION IN keV :	1.3	2.3
RESOLUTIONS MESUREES EN keV / MEASURED RESOLUTION IN keV :	1.08	2.19
ETALONNAGE EN keV/CANAL / ENERGY CALIBRATION IN keV/CHANNELS	0.03	0.2

PERFORMANCES A 1332 keV / SPECIFICATIONS AT 1332 keV	EFFICACITE RELATIVE / RELATIVE EFFICIENCY	PIC SUR COMPTON / PEAK TO COMPTON	RAPPORT / RATIO FWTM / FWHM	RAPPORT / RATIO FWFM / FWHM
VALEURS GARANTIES / GUARANTEED VALUE	55 %	59		
VALEURS MESUREES / MEASURED VALUE	58.0 %	59	2.00	2.97

LARGEUR A MI-HAUTEUR DES SEGMENTS / SEGMENT FWHM :	Garantie / guaranteed	1	2	3	4	5	6
RESOLUTIONS EN keV / RESOLUTION IN keV :	3.5	2.8	2.6	2.6	2.6	2.7	2.8

CONDITIONS DE MESURE / MEASUREMENT CONDITIONS :

AMPLIFICATEUR / AMPLIFIER : 7244, N° 3379

CONSTANTE DE TEMPS DE MISE EN FORME GAUSSIENNE / GAUSSIAN SHAPING TIME : 6µs.

TAUX DE COMPTAGE / COUNT RATE : 1000 COUPS PAR SECONDE / COUNTS PER SECOND.


CONVERTISSEUR ANALOGIQUE DIGITAL / ANALOG TO DIGITAL CONVERTER : 7602 N° 207, 8192 CANAUX / CHANNELS.

ANALYSEUR MULTICANAL / MULTICHANNEL ANALYZER : INTERFAST.

LOGICIEL D'ACQUISITION / ACQUISITION SOFTWARE : INTERWINNER 4.1

REMARQUES / REMARKS :

OC119776

Date / Date :	Nom / Name :	Visa / Visa :	Diffusion / Distribution :
16/07/2001	Kimmo JAASKELAINEN		



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F 67834 TANNERIES CEDEX

SPECIFICATION SHEET FOR N TYPE
SIX SEGMENT COAXIAL GERMANIUM DETECTOR :

EGC SEG 6 n° 633
Serial number : 73493

UPI-HD

Operating high voltage : + 4000 V , polarity POSITIVE
To be applied by 1000 V steps maximum

Total energy detection characteristics :

Energy :	122 keV	1332 keV
Measured resolution in keV :	1.5	2.4

Characteristics at 1332 keV :	Relative efficiency	Peak/Compton ratio	FWTM/FWHM ratio	FWFM/FWHM ratio
Measured value :	57.5%	55	1.88	2.70

Positions	P1	P2	P3	P4	P5	P6
Measured resolution at 1332 keV in keV	2.8	3.3	2.9	2.8	3.3	2.8

Measurement conditions : Amplifier 7244, 6 μ s gaussian shaping time.
Count rate : 1000 counts per second.
Analog to digital converter 7602 with 8192 channels.

Geometrical characteristics of the germanium crystal :

Length : 75.5 mm Total weight : 1571.7 g
Dead layer : $\leq 0.5 \mu$ Ge

Checked by : Kimmo JAASKELAINEN
Date : 31 July 2002

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SPECIFICATION SHEET FOR N TYPE
SIX SEGMENT COAXIAL GERMANIUM DETECTOR :

EGC SEG 6

n° 634

Serial number : 73547

Operating high voltage : + 4500 V , polarity POSITIVE
To be applied by 1000 V steps maximum

Total energy detection characteristics :

Energy :	122 keV	1332 keV
Measured resolution in keV :	1.16	2.20

Characteristics at 1332 keV :	Relative efficiency	Peak/Compton ratio	FWTM/FWHM ratio	FWFM/FWHM ratio
Measured value :	60 %	61	1.93	2.74

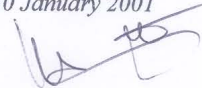
Positions	P1	P2	P3	P4	P5	P6
Measured resolution at 1332 keV in keV	2.6	2.7	2.6	2.7	2.8	2.9

Measurement conditions : Amplifier 7244, 6 μ s gaussian shaping time.
Count rate : 1000 counts per second.
Analog to digital converter 7602 with 8192 channels.

Geometrical characteristics of the germanium crystal :

Length : 76.5 mm Total weight : 1580 g
Dead layer : $\leq 0.5 \mu$ Ge

Checked by : Yvan HIETTER
Date : 10 January 2001



Parc des Tanneries
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F 67834 TANNERIES CEDEX

**SPECIFICATION SHEET FOR N TYPE
SIX SEGMENT COAXIAL GERMANIUM DETECTOR :**

**EGC SEG 6
n° 635
Serial number : 73548**

**Operating high voltage : + 4500 V , polarity POSITIVE
To be applied by 1000 V steps maximum**

Total energy detection characteristics :

Energy :	122 keV	1332 keV
Measured resolution in keV :	1.17	2.23

Characteristics at 1332 keV :	Relative efficiency	Peak/Compton ratio	FWTM/FWHM ratio	FWFM/FWHM ratio
Measured value :	59 %	64	1.91	2.77

Positions	P1	P2	P3	P4	P5	P6
Measured resolution at 1332 keV in keV	2.5	2.8	2.8	2.9	2.5	2.8

Measurement conditions : Amplifier 7244, 6 μ s gaussian shaping time.
Count rate : 1000 counts per second.
Analog to digital converter 7602 with 8192 channels.

Geometrical characteristics of the germanium crystal :

Length : 76 mm Total weight : 1566 g
Dead layer : $\leq 0.5 \mu\text{Ge}$

Checked by : Mustapha ALLALI
Date : 17 March 2003

