Designer and Manufacturer of Scientific and Industrial

# CERTIFICATE OF CALIBRATION 501 Oak Street

LUDLUM MEASUREMENTS, INC. 231 Sam Rayburn Parkway

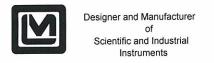
Passed Dielectric (Hi-Pot) and Continuity Test

AC Inst.

Only

Failed:

	Instruments	OL	KIII TOATE OF O	, ILIDI () I	323-233			-270-8962 pir City TN 37771	IISA
CUSTON	IER CABRERA SEF	RVICES			Sweetw		DER NO.		
			odel	3			19511		
Mfg	Ludlum Measure								
Mfg.	Ludlum Measure		odel						2 000
Cal. Date						FOR 12 TO 12			
Check mar			or IAW mfg. spec.			RH			
New	Instrument Instrum	nent Received	Within Toler. +-10%	] 10-20% [	Out of Tol.	Requiring F	Repair 🔲 O	ther-See comme	nts
✓ Mech	nanical ck.	Meter Zeroed		Backgrou	nd Subtract				
F/S F		Reset ck.		Window C			✓ Geotrop	ism	
Audi		Alarm Setting			Min. Volt)				
Calibr	ated in accordance with	n LMI SOP 14.8 rev 12			in accordance w		Thereshald		mV
Instrument	Volt Set 900	V Input Sens.	76 mV Det. Oper	900	)V at	26 mV	Dial Ratio _	=	
	IV Readout (2 points)								V
COMME	NTC:								
COMME	IN 13:								
4 Pi EH	FF. FOR Tc99: 25	4.06 %							
	S/N: 5296 .								
	ound: 41 c								
	Count: 8,000								
Source	Activity: 33,07	<b>7</b> _dpm.							
Gamma Cali	bration: GM detectors posi	itioned perpendicular to so	ource except for M 44-9 in w	hich the fron	t of probe faces so	urce.			
			FERENCE	INS	STRUMENT F	REC'D		RUMENT ER READING*  //  //  //  //  //  RUMENT ER READING*  //  //  //  //  //  //  //  //  //	
	RANGE/MULTIP	LIER CA	L. POINT	"AS	FOUND RE	ADING"	METER F		
	x100	400 K	cpm		4 K				
	x100	100 K	cpm		1,K				
	x10	40 K			- 4K	<del></del>			-8
	x10	10 K		_	4K			7 2	-
	x1	4 K			IK			IK	-0.1
	<u>x1</u>	1 K 400		_	3.9 K			418	-
	x0.1	100	****		IK			1 K	-
	x0.1	100	Орт						-0
									50
	*Uncertainty within ± 10%	C F within + 20%				ALL	Range(s) Cal	ibrated Electron	nically
	REFERENCE	INSTRUMENT	INSTRUMENT	T	REFERENCE	INST	RUMENT	INSTRUME	NT
	CAL. POINT	RECEIVED	METER READING	*	CAL. POINT	REC	EIVED	METER RE	ADING*
Digital	OAL. I OIII			Log					
Digital Readout				Scale					
		-						-	
				1	-				
		above instrument has been c	alibrated by standards traceable	to the Nationa	I Institute of Standard	is and Technology	, or to the calibrati	on facilities of	
				al physical con	stants or have been d	lerived by the ratio State	type of calibration of Texas Calibra	itechniques. ation License No. LC	D-1963
	n system conforms to the requir	Name and Address of the Owner, where the Parket of the Owner, where the Parket of the Owner, where the Owner, which the Owner		34 781	1131 16	16 1696	5105 5	717CO 5719	СО
	ce Instruments and	or Sources: 059	/		G-1054 T-304	☐ T879 ☐ T			
6064	6 70897 73410	E551 E552				A STATE OF THE STA		3000 000000 00000000000000000000000000	
_ Alp	ha S/N					Other		2040020	
<b>√</b> m 5	500 S/N189	506	Oscilloscope S/N				er S/N		
Calibrate	d By: Willia	m Tinsley			Date	5 tel	mary-	2013	
	ed By:	in mist	505		Date	n.Feb	.13		



## LUDLUM MEASUREMENTS, INC.

501 Oak Street 325-235-5494 231 Sam Rayburn Parkway 865-270-8962

Sweetwater, TX 79556, U.S.A.

Lenoir City, TN 37771, U.S.A.

### **CONVERSION CHART**

del	3	_ Serial No.	79511	Detector Model	44-9	Serial No	PR 137499	
	Cs137: 194.6 mCi, Cs137: 21 mCi				High Voltage	900		
		,			In	put Sensitivity _	26	_ m
	Reference Point		"As Found" Meter Reading	Readings (CPM): Range/Scale		iter Adjustment Re	eadings (CPM): Range/Scale	
	150 mR/h	ır	1.6 K	X 100		1.6 K	X 100	
	50 mR/h	r	_ / K	X 100		1 K	X 100	
	15 mR/h	r	4.1 K	X 10		4.1 K	X 10	
	5 mR/h	r	1.6 K	X 10	_	1.6 K	X 10	
	1.5 mR/h	r	0.5 K	X 10		0.5 K	X 10	
	1.0 mR/h	r	3.2 K	X /		3.2 K	×/	
					_			
	S							
	<u></u>							