SN 11L01ADX

Cincinnati ERT Reuter-Stokes RSS-131 Functional Test

SN Unit	11L01ADX	Case #	174	CERETS #	ERT-739	Location	Warehouse
Date	9/11/15 ~~11-Jun-13~~	Calibration Date	~~2/22/2013~~			Calib Due Date	~~2/22/2014~~
Bkg	~~4.5~~ 12 uR/hr	Temp	~~76~~ F	Pressure	~~29.92~~ " Hg	Humidity%	86

Source Number	Isotope	Activity	Comments
119E11-2	Cs-137	5 uCi	
1442	Cs-137	1 uCi	
111E01-2	Co-60	1 uCi	
111E08-2	Eu-152	1 uCi	
No SN	Th-232	~0.03 uCi	
SD-1-03	Am-241	~1 uCi	

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NOTE: The instrument is very sensitive to the cable shorting out. Do not bend cable sharply.
NOTE: This instrument is valid for collecting Data Quality Level 1 data only.
NOTE: Record changes and differences in Comments sections.

☑ 1.1 Verify that a charger, 2 serial cables with modified connectors, software CD and Data Packet are present. Verify that the RSS-131 Operations Manual, Calibration Certificate and forms are present.
☑ 1.2 Verify the S/N from the Calib Sheet and the top of the instrument are the same.
☑ 1.3 Connect special Reuter- Stokes cable from COM2 on the unit to serial port on Dell PC, Govt property # G003130 (ERT-371) or computer with current firmware and config utilities. It may be necessary to use the Serial-USB adaptor.
☑ 1.4 Plug charger in to 110 v outlet and connect to RSS-131.
☑ 1.5 Turn RSS-131 ON. Collect data for at least one hour before continuing.
☑ 1.6 Turn Dell PC ON. Open RSS-131 folder on desktop. Double click on RSS131 Config file.
☑ 1.7 Verify that the Firmware is Vers 5.7 and Config Utility is 4.4
☑ 1.8 Verify the following appears at the bottom of the screen: Ready | COM1: 9600, N,8,1 | No Modem

☑ 2.1 Go to Configuration -> General Verify these settings are selected and checked if applicable: mm/dd/yy, mR/hr, 100 msec, None; External comm port- None
☑ 2.2 Go to Configuration -> Comm Verify COM2, BAUD: 9600, Parity: None, Handshaking: None; CLOSE
☐ 2.3 Go to Configuration -> Electrometer Verify readings match Calibration certificate Page 3 (+ 0.002); CLOSE

Go to Configuration -> Sensors -> (see argument below) Change to values listed if necessary.

Argument	Interval	Buffer	AlarmLow	AlarmHigh	Comment
HPIC	60	10,000	5.00E-06	1.00E-04	Conversion Fctr- see Calib Sheet Pg 3, Unit Conv = 1
Wind Speed	3600	100	0	0	Conv Fctr = 0.219
Wind Direction	3600	100	0	0	
Pressure	60	1000	0	40	Range 800- 100 mbar
Bias volts	60	1000	250	500	
Battery volts	60	1000	5.5	8.5	
Rain	3600	100	0	500	Conversion Factor = 10.000
Temperature	60	1000	-25	50	
Aux A/D	3600	100	0	0	

☑ 3.1 Go to Configuration. Verify the following settings. CLOSE window after checking each.
Alarm Dial- blank Filter- 1 Backward compatability- blank
☑ 3.2 Go to Online. Verify the following settings. CLOSE window after checking each. ☑ Version- SFTW-131-001-5.7.0
☑ Time- Set time to PC is checked Record Uptime- Day: 0 Hour: 1 Min: 10
Record Sensor Data: HPIC: 0.0072 Bty Volts: 7.238 BiasVolts: 392.7 Temp: 27.8

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Rev 4 Oct 01, 2012	Reviewed by:	Date:	6/27/13

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5 Cincinnati ERT Reuter-Stokes RSS-131 Functional Test

SN Unit	11601SDW	Case #	172	CERETS #	ERT-737	Location	Warehouse
Date	31-Jul-13	Calibration Date	2/22/2013			Calib Due Date	2/22/2014
Bkg	5.5 uR/hr	Temp	73 F	Pressure	30.00 " Hg	Humidity%	86

Source Number	Isotope	Activity	Comments
119E11-2	Cs-137	5 uCi	
1442	Cs-137	1 uCi	
111E01-2	Co-60	1 uCi	
111E08-2	Eu-152	1 uCi	
No SN	Th-232	~0.03 uCi	
SD-1-03	Am-241	~1 uCi	

COPY

NOTE: The instrument is very sensitive to the cable shorting out. Do not bend cable sharply.
NOTE: This instrument is valid for collecting Data Quality Level 1 data only.
NOTE: Record changes and differences in Comments sections.

☑ 1.1 Verify that a charger, 2 serial cables with modified connectors, software CD and Data Packet are present. Verify that the RSS-131 Operations Manual, Calibration Certificate and forms are present.
☑ 1.2 Verify the S/N from the Calib Sheet and the top of the instrument are the same.
☑ 1.3 Connect special Reuter- Stokes cable from COM2 on the unit to serial port on Dell PC, Govt property # G003130 (ERT-371) or computer with current firmware and config utilities. It may be necessary to use the Serial-USB adaptor.
☑ 1.4 Plug charger in to 110 v outlet and connect to RSS-131.
☑ 1.5 Turn RSS-131 ON. Collect data for at least one hour before continuing.
☑ 1.6 Turn Dell PC ON. Open RSS-131 folder on desktop. Double click on RSS131 Config file.
☑ 1.7 Verify that the Firmware is Vers 5.7 and Config Utility is 4.4
☑ 1.8 Verify the following appears at the bottom of the screen: Ready | COM1: 9600, N,8,1 | No Modem

☑ 2.1 Go to Configuration -→ General Verify these settings are selected and checked if applicable: mm/dd/yy, mR/hr, 100 msec, None; External comm port- None
☑ 2.2 Go to Configuration -→ Comm Verify COM2, BAUD: 9600, Parity: None, Handshaking: None; CLOSE
☑ 2.3 Go to Configuration -→ Electrometer Verify readings match Calibration certificate Page 3 (+ 0.002); CLOSE

Go to Configuration -→ Sensors -→ (see argument below) Change to values listed if necessary.

Argument	Interval	Buffer	AlarmLow	AlarmHigh	Comment
HPIC	60	10,000	5.00E-06	1.00E-04	Conversion Fctr- see Calib Sheet Pg 3, Unit Conv = 1
Wind Speed	3600	100	0	0	Conv Fctr = 0.219
Wind Direction	3600	100	0	0	
Pressure	60	1000	0	40	Range 800- 100 mbar
Bias volts	60	1000	250	500	
Battery volts	60	1000	5.5	8.5	
Rain	3600	100	0	500	Conversion Factor = 10.000
Temperature	60	1000	-25	50	
Aux A/D	3600	100	0	0	

☑ 3.1 Go to Configuration. Verify the following settings. CLOSE window after checking each.
Alarm Dial- blank Filter- 1 Backward compatability- blank
☑ 3.2 Go to Online. Verify the following settings. CLOSE window after checking each. ☑ Version- SFTW-131-001-5.7.0
☑ Time- Set time to PC is checked Record Uptime- Day: 0 Hour: 4 Min: 45
Record Sensor Data: HPIC: 0.0068 Bty Volts: 6.566 BiasVolts: 407.8 Temp: 27.00

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Performed by: W.D.Connell Date: 7/31/13
Reviewed by: [signature] Date: 8/20/13