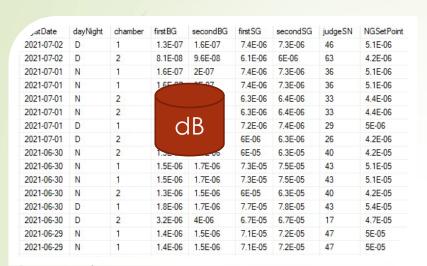
Operation manual Auto Recording software

[Helium leak test machine (WGR)]

Understand Outline





Trigger recording time 8:00 AM and 20:00PM every day



Make sure software running all time.

Chamber 1



Chamber 2

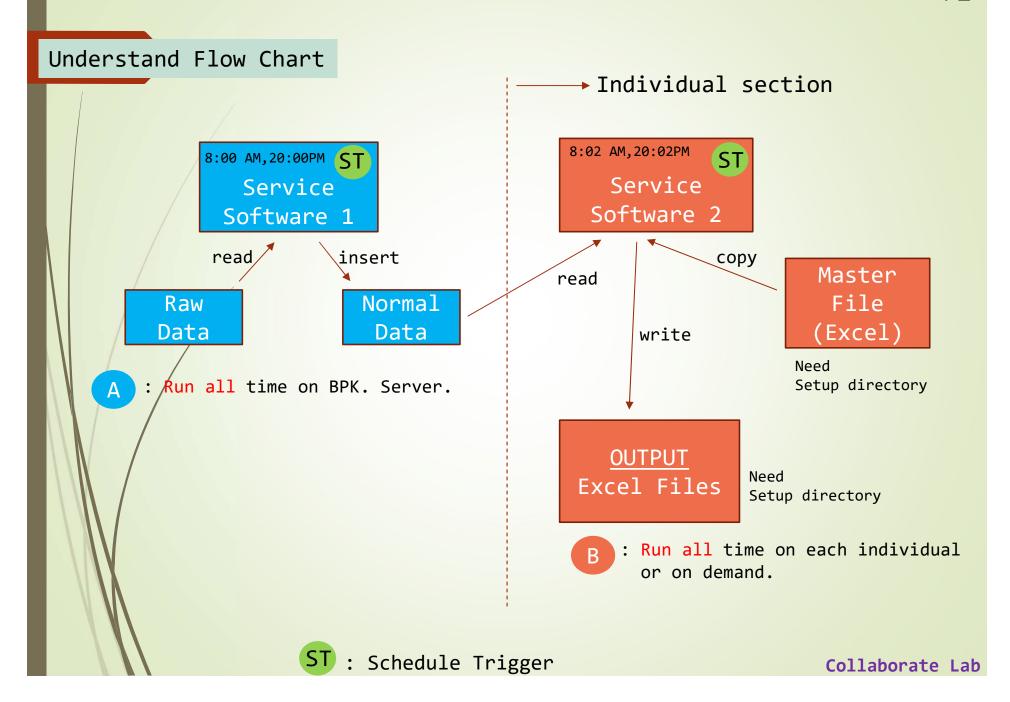


Understand Condition

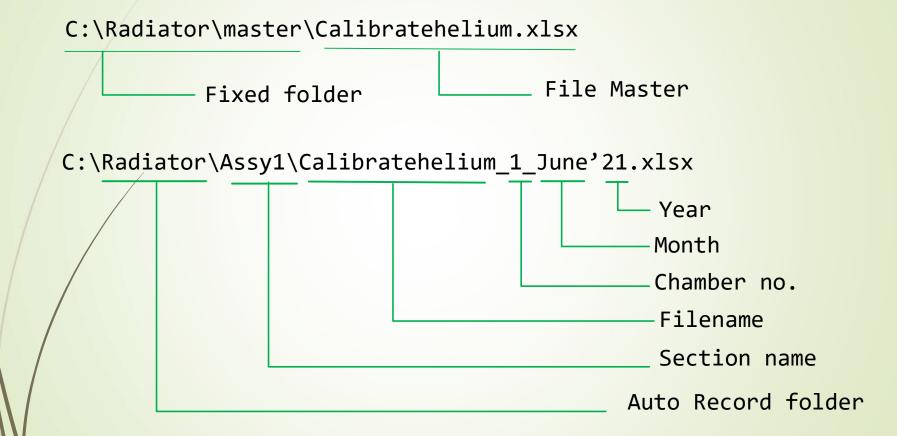
- 1. Calibration time is 23:00 PM yesterday 08:00 AM today => Shift = Day (D)
- 2. Calibration time is 11:00 AM today 20:00 PM today => Shift = Night (N)
- 3. Using latest only. One day has 2 times.

Feature

- 1. Transfer data from DB to Excel file which using form designed in c:\radiator\master\Calibratehelium.xlsx (depend on setting)
- 2. File is created on section-name if system has more one section-code
- Provide Function re-update on datetime by individual.

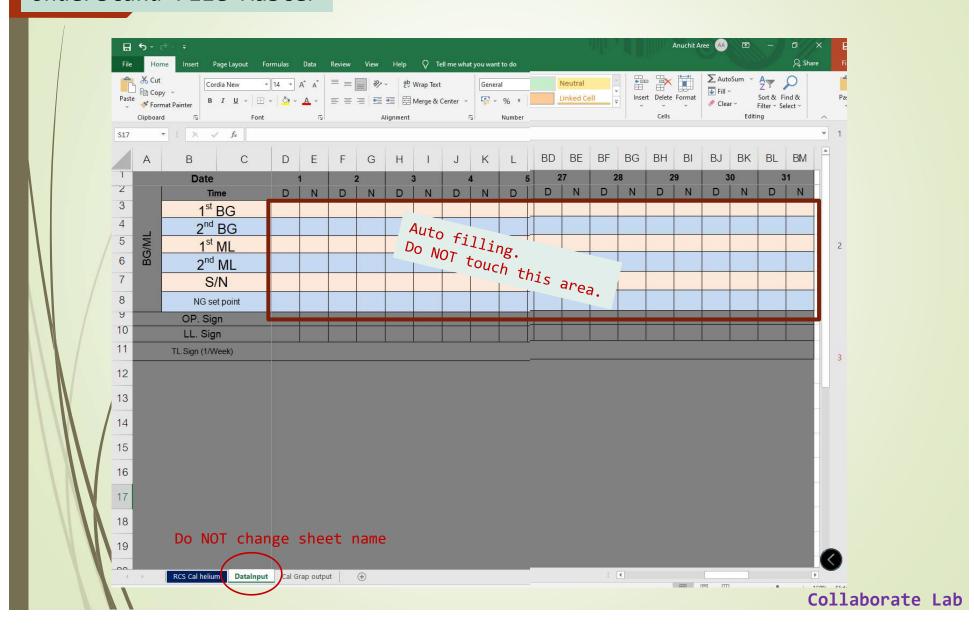


Understand Folder structure



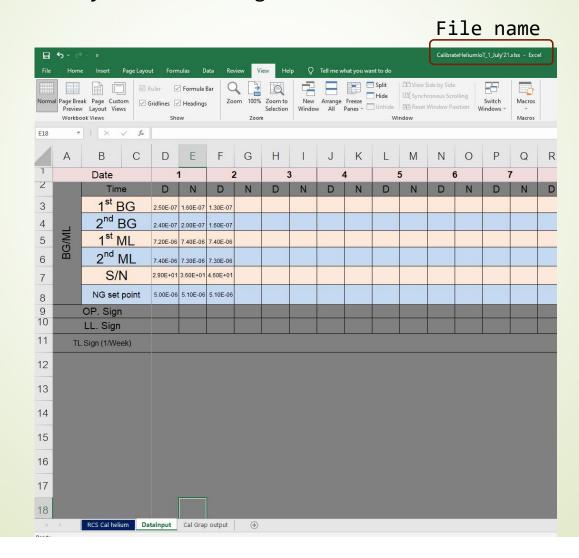
Operation manual Auto Recording software

Understand File Master



Understand File recorded

Recorded data: data is transferred 2 Chamber On Day-shift and Night-shift twice.



Collaborate Lab

Understand Service software

1. Run file Service.exe
 Program create file C:\KPi\Login\Connection.dat

You should select connection type

Network 3G/4G/5G :4G, Local

Connection.dat - Notepad

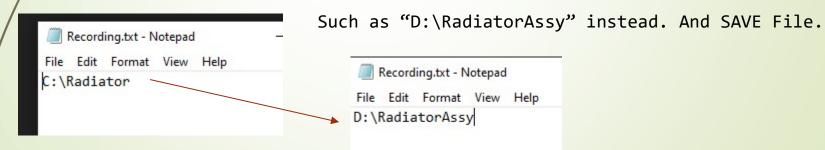
File Edit Format View Help

4G, Local

Network Local : Local, 4G

And Program create file C:\KPi\AutoRecord\Recording.txt

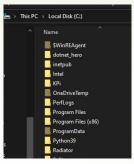
You make sure subdirectory to keep file. You can change by yourselves.



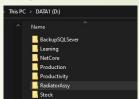
If you edit file, you should restart this program again to create new folder.

Understand Service software

In the case:
Don't edit data

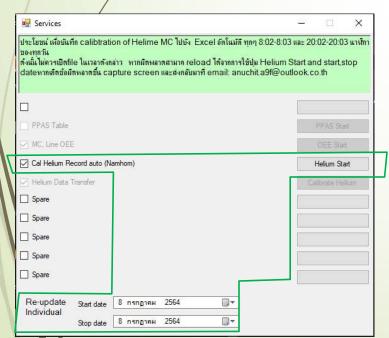


In the case:
Change to D:\RadiatorAssy



Bring Calibratehelium.xlsx file to place at "Master" folder of "Radiator" folder or "RadiatorAssy" folder.

2. Run file Service.exe again. (In the case: RadiatorAssy)



Trial save transfer data by individua.

Step I: select start & stop date

Step II: push Helium start

Step III: Excel file and section-name folder

is created at Radiator directory . It has 2 files.

If these files lost. It created after trigger running. But data is NOT full, should update by self.

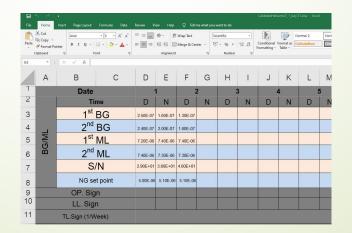
Understand Service software

Data in database.

sectionCode	regist Date	current Date Time	dayNight	machineld	chamber	first BG	secondBG	firstSG	secondSG	judgeSN	safetyFactor	NGSetPoint 1	calibrationCompleted
4314-00	2021-07-02	2021-07-02 16:31:29.000	D	6SM-0518-R	2	8.1E-08	9.6E-08	6.1E-06	6E-06	63	70	4.2E-06	OK
4314-00	2021-07-02	2021-07-02 16:35:42.000	D	6SM-0518-L	1	1.3E-07	1.6E-07	7.4E-06	7.3E-06	46	70	5.1E-06	ОК
4314-00	2021-07-01	2021-07-02 04:35:13.000	N	6SM-0518-R	2	1.9E-07	1.9E-07	6.3E-06	6.4E-06	33	70	4.4E-06	OK
4314-00	2021-07-01	2021-07-02 04:36:18.000	N	6SM-0518-R	2	1.9E-07	1.9E-07	6.3E-06	6.4E-06	33	70	4.4E-06	OK
4314-00	2021-07-01	2021-07-01 16:32:50.000	D	6SM-0518-R	2	2.3E-07	2.3E-07	6E-06	6.3E-06	26	70	4.2E-06	OK
4314-00	2021-07-01	2021-07-02 04:41:11.000	N	6SM-0518-L	1	1.6E-07	2E-07	7.4E-06	7.3E-06	36	70	5.1E-06	OK
4314-00	2021-07-01	2021-07-02 04:42:16.000	N	6SM-0518-L	1	1.6E-07	2E-07	7.4E-06	7.3E-06	36	70	5.1E-06	OK
4314-00	2021-07-01	2021-07-01 16:37:05.000	D	6SM-0518-L	1	2.5E-07	2.4E-07	7.2E-06	7.4E-06	29	70	5E-06	OK
4314-00	2021-06-30	2021-06-30 16:34:58.000	D	6SM-0518-R	2	3.2E-06	4E-06	6.7E-05	6.7E-05	17	70	4.7E-05	OK
4314-00	2021-06-30	2021-06-30 16:39:14.000	D	6SM-0518-L	1	1.8E-06	1.7E-06	7.7E-05	7.8E-05	43	70	5.4E-05	OK
4314-00	2021-06-30	2021-07-01 04:24:46.000	N	6SM-0518-R	2	1.3E-06	1.5E-06	6E-05	6.3E-05	40	70	4.2E-05	OK
4314-00	2021-06-30	2021-07-01 04:29:18.000	N	6SM-0518-L	1	1.5E-06	1.7E-06	7.3E-05	7.5E-05	43	70	5.1E-05	OK
4314-00	2021-06-30	2021-07-01 04:30:17.000	N	6SM-0518-L	1	1.5E-06	1.7E-06	7.3E-05	7.5E-05	43	70	5.1E-05	OK
4314-00	2021-06-30	2021-07-01 04:31:21.000	N	6SM-0518-R	2	1.3E-06	1.5E-06	6E-05	6.3E-05	40	70	4.2E-05	OK
4314-00	2021-06-29	2021-06-30 04:42:36.000	N	6SM-0518-L	1	1.4E-06	1.5E-06	7.1E-05	7.2E-05	47	70	5E-05	OK
4314-00	2021-06-29	2021-06-30 04:44:17.000	N	6SM-0518-L	1	1.4E-06	1.5E-06	7.1E-05	7.2E-05	47	70	5E-05	OK
4314-00	2021-06-29	2021-06-29 11:10:24.000	D	6SM-0518-R	2	1.3E-06	1.8E-06	6.2E-05	6.4E-05	34	70	4.3E-05	OK
4314-00	2021-06-29	2021-06-30 04:35:37.000	N	6SM-0518-R	2	1.6E-06	1.7E-06	6.1E-05	6.1E-05	36	70	4.3E-05	OK
4314-00	2021-06-29	2021-06-30 04:36:35.000	N	6SM-0518-R	2	1.6E-06	1.7E-06	6.1E-05	6.1E-05	36	70	4.3E-05	OK
4314-00	2021-06-29	2021-06-29 11:06:10.000	D	6SM-0518-L	1	2E-06	2.1E-06	7.1E-05	7.5E-05	34	70	5E-05	OK

After data was transferred.







Condition

- 1. Calibration time is 23:00 PM yesterday 08:00 AM today => Shift = Day (D)
- 2. Calibration time is 11:00 AM today 20:00 PM today => Shift = Night (N)

Appendix

WGR].[dbo].[RD_HL_CalibrationTable] (Before)

run	sectionicos e	regist Date	current Date Time	dayNight	machineld	chamber	firstBG	secondBG	firstSG	secondSG	judgeSN	safetyFactor	NGSetPoint	calibrationCo
221 0	7 OF N	2021-07-05	2021-07-06 00:35:35.000	N	6SM-0518-L	1	2.2E-07	2.7E-07	7E-06	7.1E-06	26	70	4.9E-06	OK
121-6	7-05 N	2021-07-05	2021-07-06 00:29:03.000	N	6SM-0518-L	1	2.2E-07	2.7E-07	7E-06	7.1E-06	26	70	4.9E-06	OK
4319	4314-00	2021-07-05	2021-07-05 16:41:03.000	D	6SM-0518-L	1	4.1E-07	4.4E-07	9.9E-06	9.9E-06	22	78	6.9E-06	OK
921-0	7-02 N —	2021-07-05	2021-07-05 16:40:07.000	D	6SM-0518-L	1	4.1E-07	4.4E-07	9.9E-06	9.9E-06	22	70	6.9E-06	OK
4309	4314-00	2021-07-02	2021-07-02 16:35:42.000	D	6SM-0518-L	1	1.3E-07	1.6E-07	7.4E-06	7.3E-06	46	X	5.1E-06	OK
430	4314-00	2021-07-01	2021-07-02 04:42:16.000	N	6SM-0518-L	1	1.6E-07	2E-07	7.4E-06	7.3E-06	36	70	5 1E-06	OK
2021-	07-02 D	2021-07-01	2021-07-02 04:41:11.000	N	6SM-0518-L	1	1.6E-07	2E-07	7.4E-06	7.3E-06	36	70	5.1E-06	OK
429	4314-00	2021-07-01	2021-07-01 16:37:05.000	D	6SM-0518-L	1	2.5E-07	2.4E-07	7.2E-06	7.4E-06	29	70	5E-06	OK
021-0	7-01 N	2021-06-30	2021-07-01 04:30:17.000	N	6SM-0518-L	1	1.5E-06	1.7E-06	7.3E-05	7.5E-05	43	70	5.1E-05	OK
		2021-06-30	2021-07-01 04:29:18.000	N	6SM-0518-L	1	1.5E-06	1.7E-06	7.3E-05	7.5E-05	43	70	5.1E-05	OK
427	4314-00	2021-06-30	2021-06-30 16:39:14.000	D	6SM-0518-L	1	1.8E-06	1.7E-06	7.7E-05	7.8E-05	43	70	5.4E-05	OK
2021	-07-01 D	2021-06-29	2021-06-30 04:44:17.000	N	6SM-0518-L	1	1.4E-06	1.5E-06	7.1E-05	7.2E-05	47	70	5E-05	OK
	07 01 0	2021-06-29	2021-06-30 04:42:36 000	N	6SM-0518-L	1	1.4F-06	1.5F-06	7.1F-05	7.2F-05	47	70	5F-05	OK
		2021-06-29	2021-06-30 04:42:36.000 WGR] . [dbo] . [R		6SM-0518-L Calibrat			1.5E-06	7.1E-05	7.2E-05	47	70	5E-05	ОК
	sectionCode						(After			7.2E-05				
			WGR].[dbo].[R	D_HL_(Calibrat	ion] ((After	secondBG		secondSG				
	sectionCode 2 4314-00	registDate	WGR].[dbo].[R	D_HL_(dayNight	Calibrat	ion] ((After	secondBG 6 1.7E-06	G firstSG	secondSG 7.5E-05	i judge X		or NGSetPoir	nt AckPen
	sectionCode 2 4314-00 3 4314-00	registDate 2021-07-01	WGR].[dbo].[R currentDateTime 2021-07-01 04:30:17.000	D_HL_(dayNight D N	Calibrat machineld 6SM-0518-L	ion] (chamber 1	(After	secondBG 6 1.7E-06 7 2.4E-07	i first SG 7.3E-05	secondSG 7.5E-05 7.4E-06	i judge 8	N safetyFact	or NGSetPoir 5.1E-05	nt AckPen
1	sectionCode 2 4314-00 3 4314-00 6 4314-00	regist Date 2021-07-01 2021-07-01	WGR].[dbo].[R currentDateTime 2021-07-01 04:30:17.000 2021-07-01 16:37:05.000	D_HL_(dayNight D N	Calibrat machineld 6SM-0518-L	ion] (chamber 1 1 1	(After firstBG 1.5E-06 2.5E-07	secondBG 6 1.7E-06 7 2.4E-07 7 2E-07	i firstSG 7.3E-05 7.2E-06	secondSG 7.5E-05 7.4E-06 7.3E-06	judge 43 29	N safetyFact	or NGSetPoir 5.1E-05 5E-06	nt AckPen NULL NULL
	sectionCode 2 4314-00 3 4314-00 6 4314-00 7 4314-00	regist Date 2021-07-01 2021-07-01 2021-07-02	WGR].[dbo].[R currentDateTime 2021-07-01 04:30:17.000 2021-07-01 16:37:05.000 2021-07-02 04:42:16.000	D_HL_0 dayNight D N D N	machineld 6SM-0518-L 6SM-0518-L 6SM-0518-L	ion] (chamber 1 1 1 1	(After firstBG 1.5E-00 2.5E-07 1.6E-07	secondBG 6 1.7E-06 7 2.4E-07 7 2E-07 7 1.6E-07	i firstSG 7.3E-05 7.2E-06 7.4E-06	secondSG 7.5E-05 7.4E-06 7.3E-06 7.3E-06	judge 8 43 29	N safetyFact	NG Set Poir 5.1E-05 5E-06 5.1E-06	nt AckPer NULL NULL