

“Sysmex Network Communication System (SNCS) for coagulation”

September 13th, 2018



Sysmex Thailand Co., Ltd

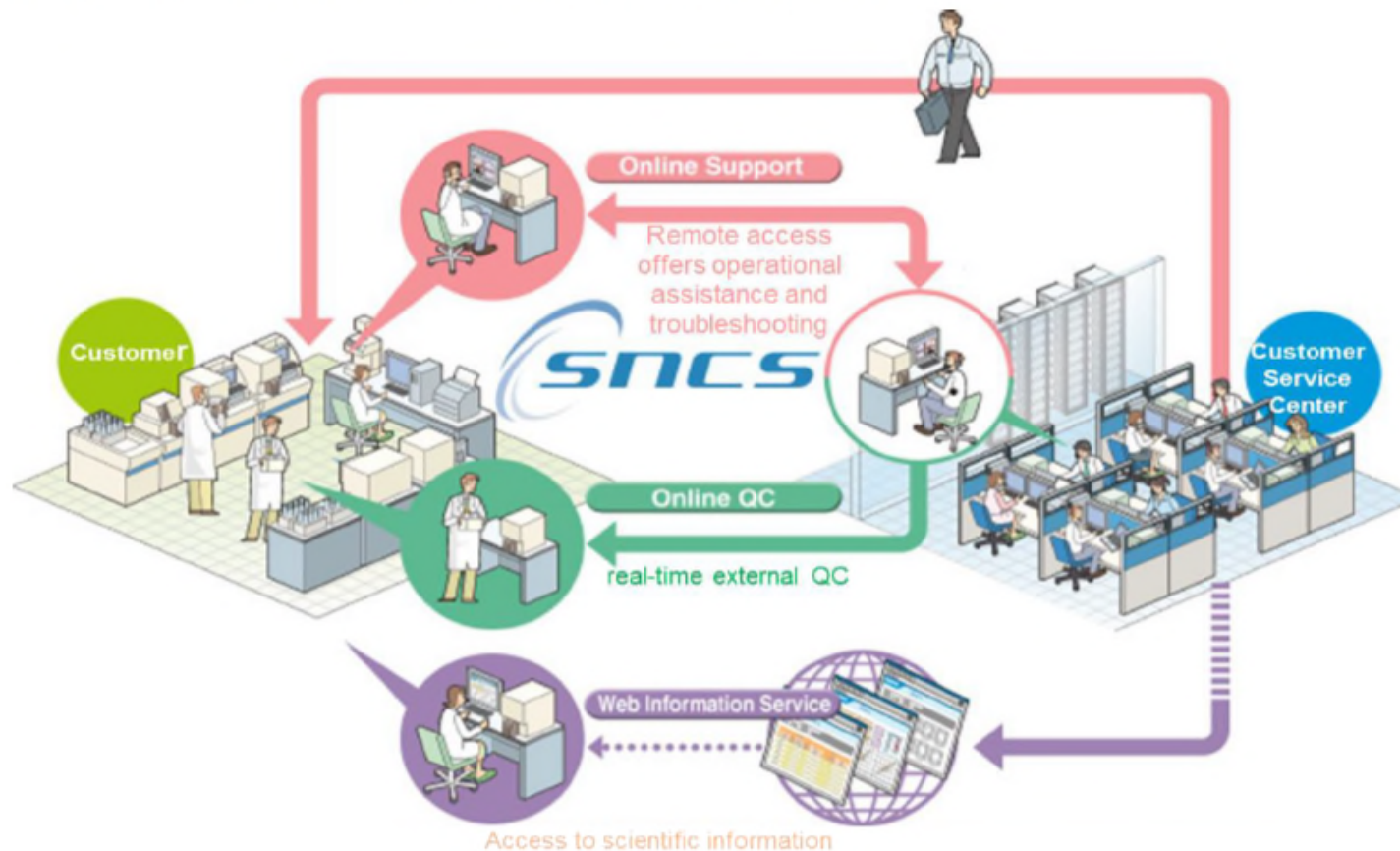
Rujires Pankan
Application Specialist
Sysmex Thailand Co., Ltd.

SNCS Features overview

What is SNCS?

SNCS = Sysmex Network Communication System

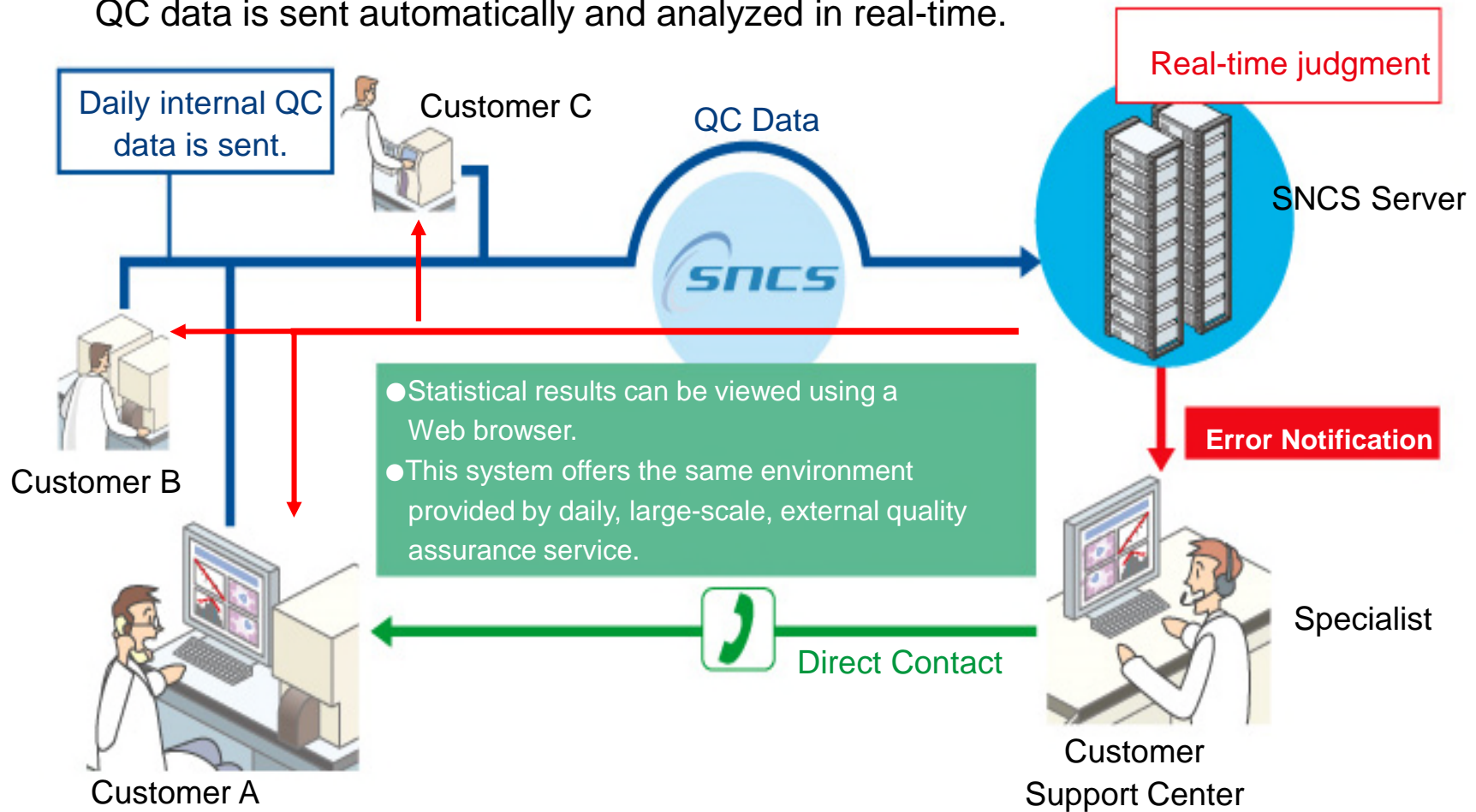
Web-based quality assurance system that can provide real-time EQA, Online QC and Online Support



Online QC



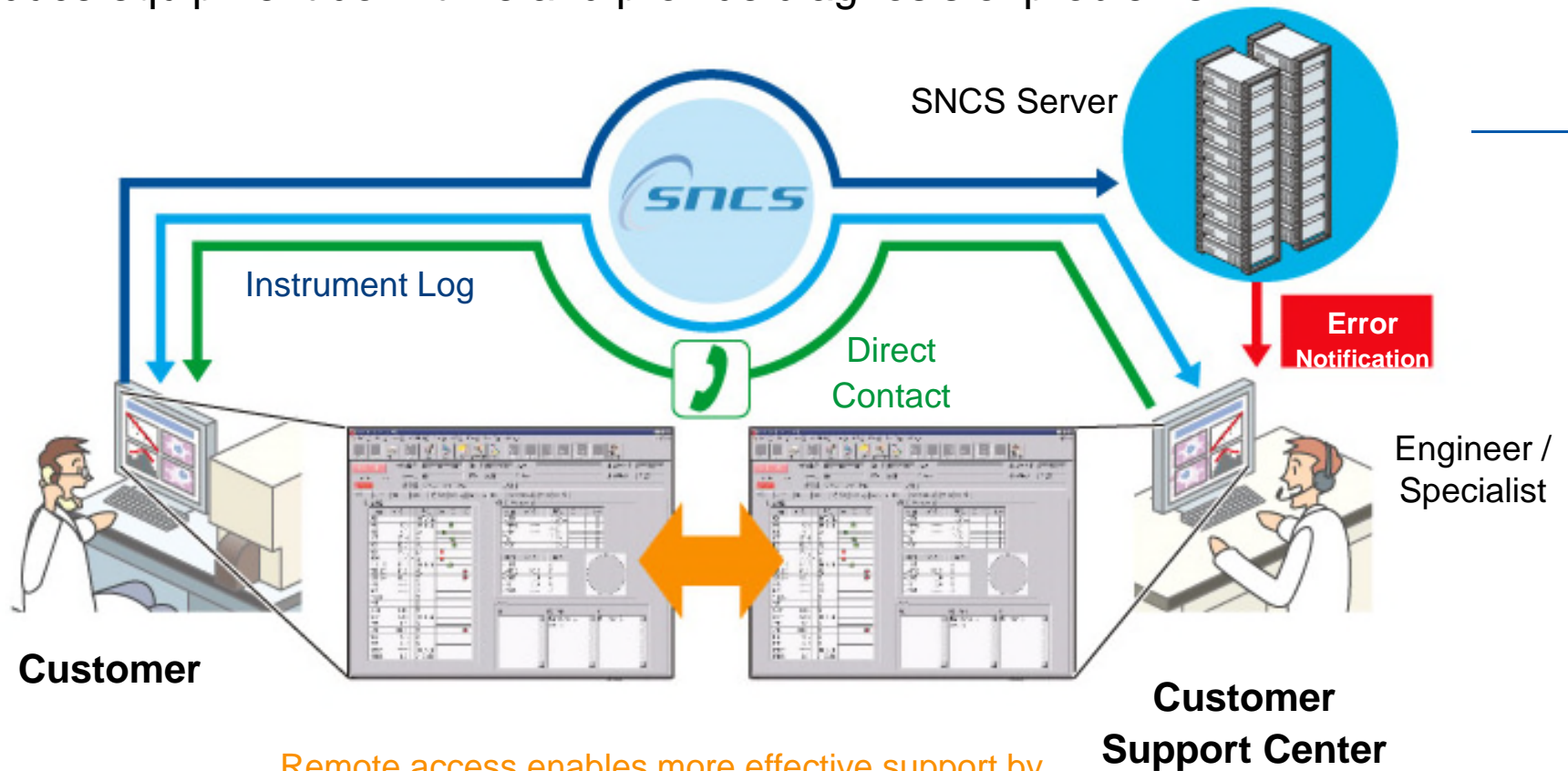
After measuring control material,
QC data is sent automatically and analyzed in real-time.



Online Support

Rapid service via online network!

Reduce equipment downtime and provide diagnosis of problems.



Remote access enables more effective support by sharing same instrument screen.

Scientific Web Information

- E-learning
- Case archive
- Technical Information
- FAQ section

Scattergram interpretation XE-2100


WELCOME TO THE SYSMEX XE-2100 e-learning course:
Scattergram interpretation XE-2100

DIFF Channel
Flagging DIFF Channel
WBC/BASO Channel
Flagging WBC/BASO Channel
IMI Channel
Flagging IMI Channel
NRBC Channel
Flagging NRBC Channel
RET Channel
Flagging RET Channel
QUIZ



In this course you can learn about the principles and morphological flag messages of the XE-2100. Click next to start the course step by step or select a single chapter in the menu bar.

Click here

to get more information how to use the course:



Help



How to Login

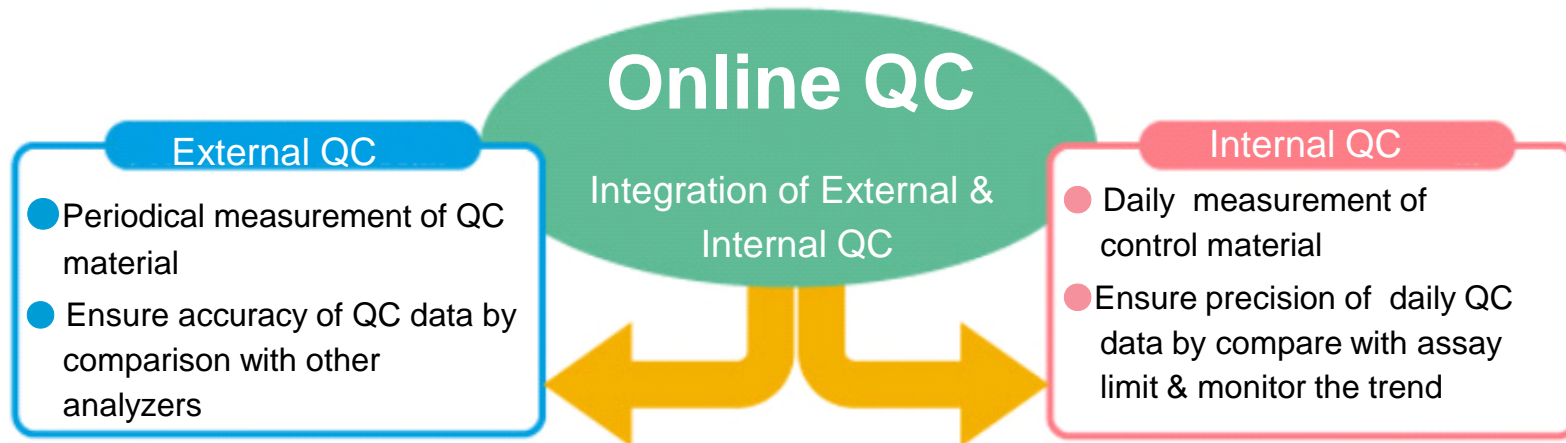
For Customer

The URL of login screen for customer is <http://sncs-web.com/ap>

In this site, SNCS system can be used in User/Group mode and Group Manager mode.



SNCS Online QC



Feature 1 Daily calculation of data gathered from instrument nation-wide

QC data from participants is automatically sent to Sysmex's Data Analysis Center, where the data is analyzed. The results can be viewed using Web browser.

Feature 2 QC data monitored in three monitoring methods

The quality control data from each participant is monitored in terms of accuracy, precision, and trend, in order to detect any problems.

Feature 3 Follow-up participants

Abnormal data detected generated a email error notification to service organisation or customer for follow-up.

How to register QC data



Available Methods for Sysmex Analyzers

*Most commonly used way

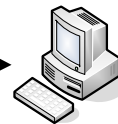
Directly from analyzer



Mail(txt)

1. Measurement & Send Data

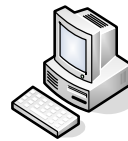
Web Upload



Web Upload (SNCS Format)

1. Measurement 2. Data Output 3. Upload on Web

Manual Input



Manual Input

1. Measurement 2. Manual Input on Web

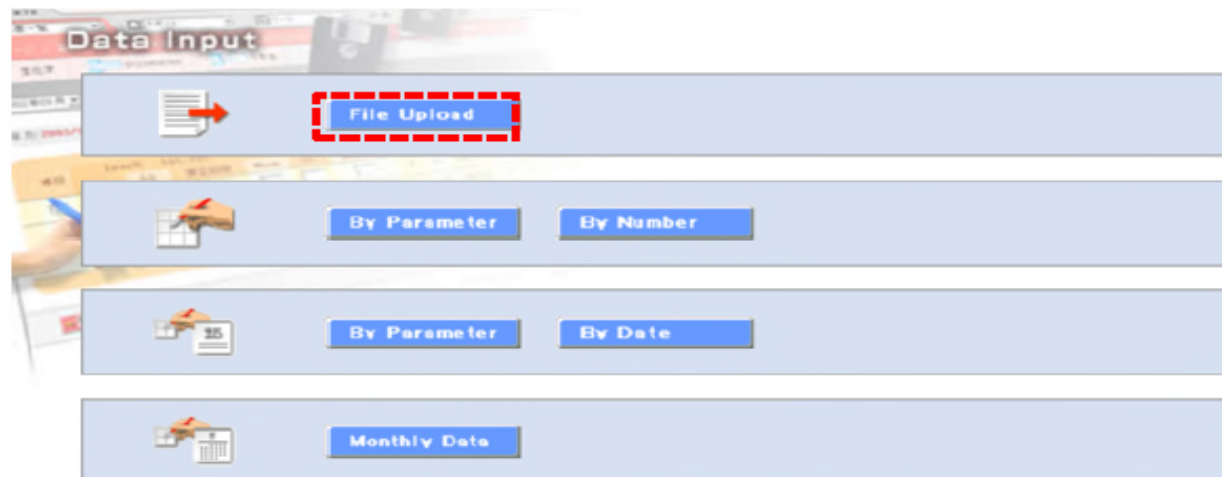


SNCS server

File Upload

The files within 3 days after measurement can be uploaded.

1. To upload files, select [File Upload].

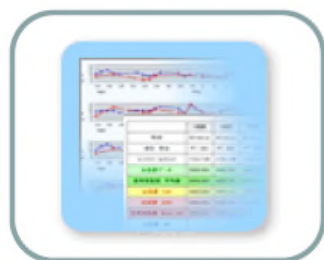


2. Click "Browse" and select the file you want to upload.

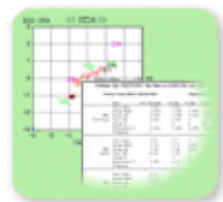


Graphs & Charts

Five types of graphs are available in SNCS to analyze the QC data for accuracy, precision and trend. Daily and monthly QC reports can be downloaded in PDF format from the SNC Website when you perform backup of QC data.



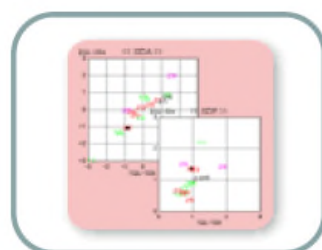
Time-Series



Perform Backup QC



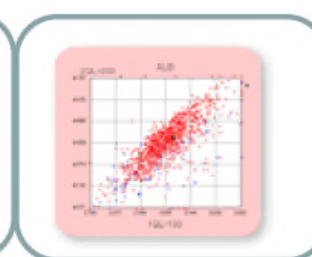
QAP Matrix



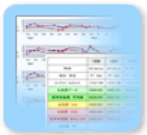
SDI/ Twin plot



SDI/Twin Plot (Group)



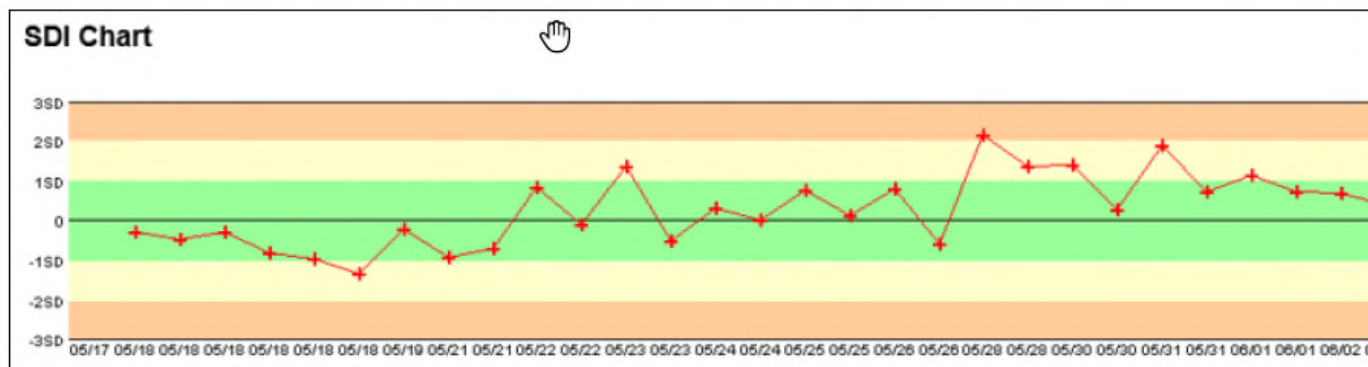
Scatter Plot



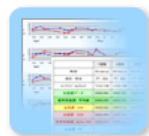
Time-Series Chart

The QC data can be viewed on Chart or Num. Table which are switchable.

Chart - Your data (intraday, daily and monthly) can be compared with peer group statistics graphically. Display chart type can be selected as ALL (SDI+PI+SDi), SDI, PI or SDi.



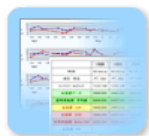
- Black line in the center of the chart represents the peer group mean
- Colored plot indicates your SDI
- Green color band indicates $\pm 1SD$, yellow $\pm 2SD$ and orange $\pm 3SD$
- Red "X" mark indicates data exceeded $\pm 3SD$



Time-series Chart

Num. Table – Your measurement results, your statistics, peer group statistics and judgment results (error flags) can be viewed in numerical values.

Date - Number	05-17-01	05-18-01	05-18-02	05-18-03	05-18-04
Time(HH:MM:SS)	15:49:07	07:10:35	12:30:42	12:37:10	13:29:51
Parameter Unit	RBC x10 ¹² /L	RBC x10 ¹² /L	RBC x10 ¹² /L	RBC x10 ¹² /L	RBC x10 ¹² /L
Control Lot	#8127(L1)_OP	#8127(L1)_OP	#8127(L1)_OP	#8127(L1)_OP	#8127(L1)_OP
Your data	2.380	2.370	2.360	2.370	2.340
Group Mean	2.420	2.386	2.386	2.386	2.386
Your SDi					
Your SDI		-0.288	-0.461	-0.288	-0.808
Peer group Inter-SD	0.000	0.057	0.057	0.057	0.057
Your SD				+	
Peer group Total-SD	0.000	0.057	0.057	0.057	0.057



Time-series Chart

You can click on the Help button to display an explanation of the Num. Table.

Help	
Date - Number	Measurement day and number of measurement times
Time(HH:MM:SS)	Measurement time
Parameter Unit	Measurement parameter name unit
Control Lot	Control lot number
Your data	Measurement value
Group Mean	Mean value of the selected peer group at judgment
Your SDi	-
Your SDI	$[Your\ data - Group\ Mean] / Inter\ SD^{*1}$
Peer group Inter-SD	Inter-SD of the selected peer group at judgment
Your SD	-
Peer group Total-SD	$\sqrt{Inter-SD^2 + Intra-SD^2}$
Group N	Number of participants of the selected peer group at judgment
Judge	Result of Error judgment

*1: Judged by Total-SD
 Your SDI = [Your data - Group Mean] / Total-SD

m



Reports (PDF)



Monthly PDF report can be downloaded. In the PDF report, various statistical data, Error List, and SDI/PI Twin Plot are described.

200803_e-CHECK_CLOSED.pdf

200803_e-CHECK_OPEN.pdf

200802_e-CHECK_CLOSED.pdf

200802_e-CHECK_OPEN.pdf

Monthly Report
Cover sheet

Sysmex Corporation
Model: XE-2100
Serial No.: 11030
Instrument Code: 000000000

Report Month: 2008-02
Control Material: e-CHECK_CLOSED

Lab. Printing for Judgment: 00-000001 / 00-000002
Lab. Number: 00-000001 / 00-000002

Your data, Peer group statistics

Error Judgment

SDI/PI Number Line

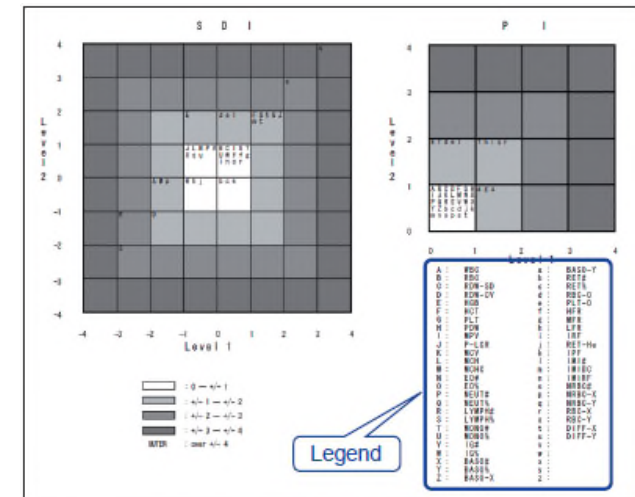
ITEM	Control Material	MEAN	SD	CV	W	W2	W3	W4	W5	W6	W7	W8	W9	W10	W11	W12	W13	W14	W15	W16	W17	W18	W19	W20	W21	W22	W23	W24	W25	W26	W27	W28	W29	W30	W31	W32	W33	W34	W35	W36	W37	W38	W39	W40	W41	W42	W43	W44	W45	W46	W47	W48	W49	W50	W51	W52	W53	W54	W55	W56	W57	W58	W59	W60	W61	W62	W63	W64	W65	W66	W67	W68	W69	W70	W71	W72	W73	W74	W75	W76	W77	W78	W79	W80	W81	W82	W83	W84	W85	W86	W87	W88	W89	W90	W91	W92	W93	W94	W95	W96	W97	W98	W99	W100																																										
178	GO-000001	27.75	1.40	5.05	13	20	27	34	41	48	55	62	69	76	83	90	97	104	111	118	125	132	139	146	153	160	167	174	181	188	195	202	209	216	223	230	237	244	251	258	265	272	279	286	293	300	307	314	321	328	335	342	349	356	363	370	377	384	391	398	405	412	419	426	433	440	447	454	461	468	475	482	489	496	503	510	517	524	531	538	545	552	559	566	573	580	587	594	601	608	615	622	629	636	643	650	657	664	671	678	685	692	699	706	713	720	727	734	741	748	755	762	769	776	783	790	797	804	811	818	825	832	839	846	853	860	867	874	881	888	895	902	909	916	923	930	937	944	951	958	965	972	979	986	993	1000

Control Material	Monthly Error	COMMENT
0050801	System Error (High)	
0050802	System Error (High)	
0050801	System Error (High)	
0050802	System Error (High)	
0050801	System Error (High)	
0050802	System Error (High)	
0050801	System Error (High)	
0050802	System Error (High)	
0050801	System Error (High)	
0050802	System Error (High)	
0050801	System Error (High)	
0050802	System Error (High)	

Error Type

Exclusion Count	COMMENT
RG-CUT Error	1
RG-CUT Error	1

The number of data excluded for statistical calculation





Backup of QC data 12 Months Monthly, Daily summarize



The screenshot shows a web browser window displaying the SNCS (Sysmex Network Communication System) interface. The browser address bar shows the URL <https://sncs-web.com/ap/menu/index.htm>. The page header includes the SNCS logo and the Sysmex logo. The navigation menu contains "MAIN MENU", "Instrument List (QC)", "Log Analysis", and "Support", along with a "Log-out" button. The breadcrumb trail is "Instrument List (QC) > Review Data > Perform backup of QC data (Method-Q)".

The main content area displays the following information:

- Phyathai Nawamin International
- XT-1800i
- 17404
- S/N 17404

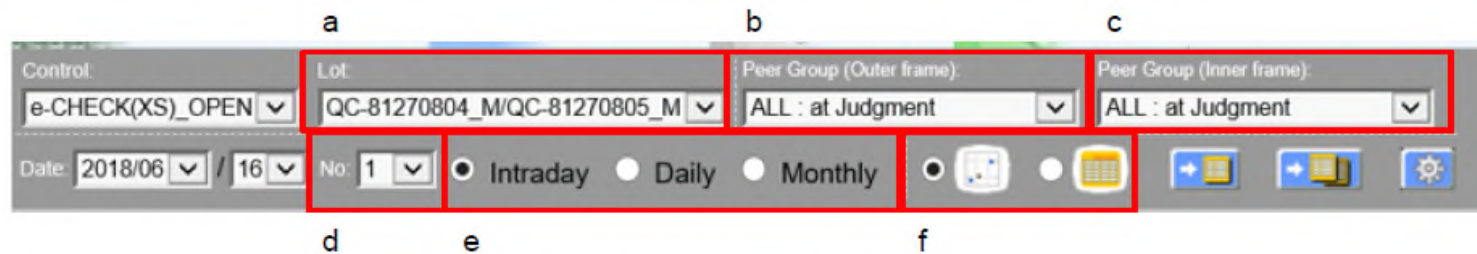
Below this information, there are two columns of PDF files, each with a download icon (PDF with a plus sign):

File Name	File Name
201807_e-CHECK(XE)_CLOSED.pdf	201806_e-CHECK(XE)_CLOSED_Daily.pdf
201807_e-CHECK(XE)_OPEN.pdf	201806_e-CHECK(XE)_OPEN_Daily.pdf
201806_e-CHECK(XE)_CLOSED.pdf	201805_e-CHECK(XE)_CLOSED_Daily.pdf
201806_e-CHECK(XE)_OPEN.pdf	201805_e-CHECK(XE)_OPEN_Daily.pdf



QAP Matrix

In QAP Matrix, QC data for all measurement data are displayed and can be compared with peer group mean (Total/ Group) at a glance. Below is the operation panel of QAP Matrix screen.



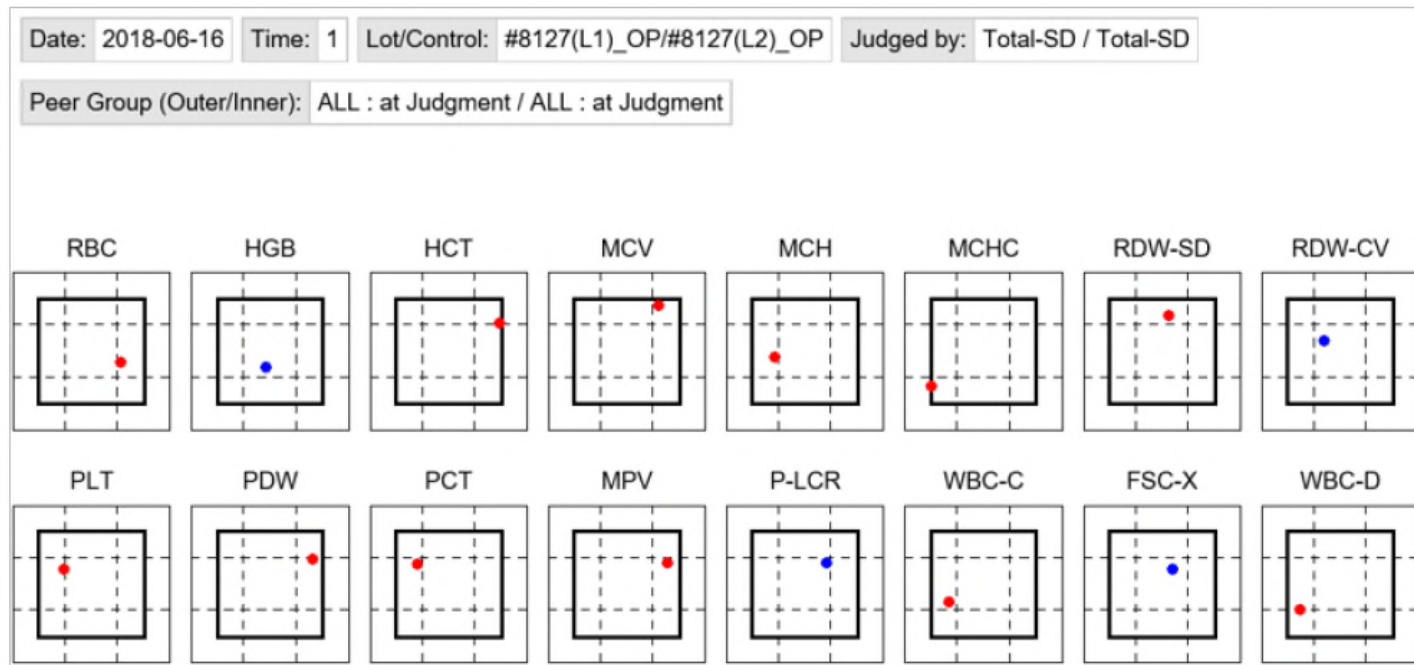
- Combination of lot number can be selected
- Peer group which will draw the outer frame (3SD) can be selected.
- Peer group which will draw the inner frame (2SD) can be selected.
- Number of times can be selected if intraday is selected.
- Data to be displayed and selectable period of measurement
- Graph or Num. table can be selected.



QAP Matrix

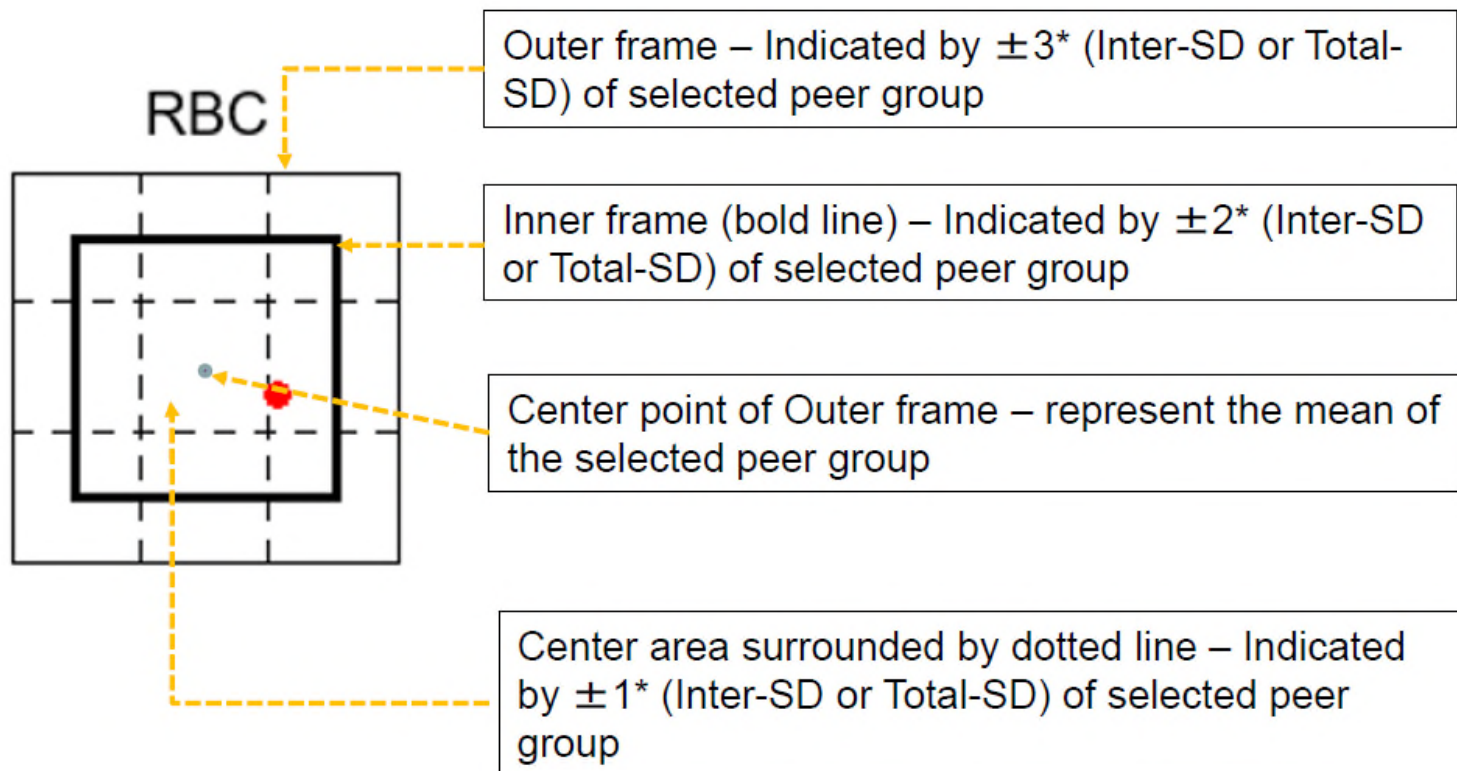
QAP Matrix consists of the following elements:

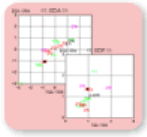
- Frames which are drawn based on judgment method of selected peer group (Inter-SD or Total-SD)
- A plot which indicates your SDI





QAP Matrix

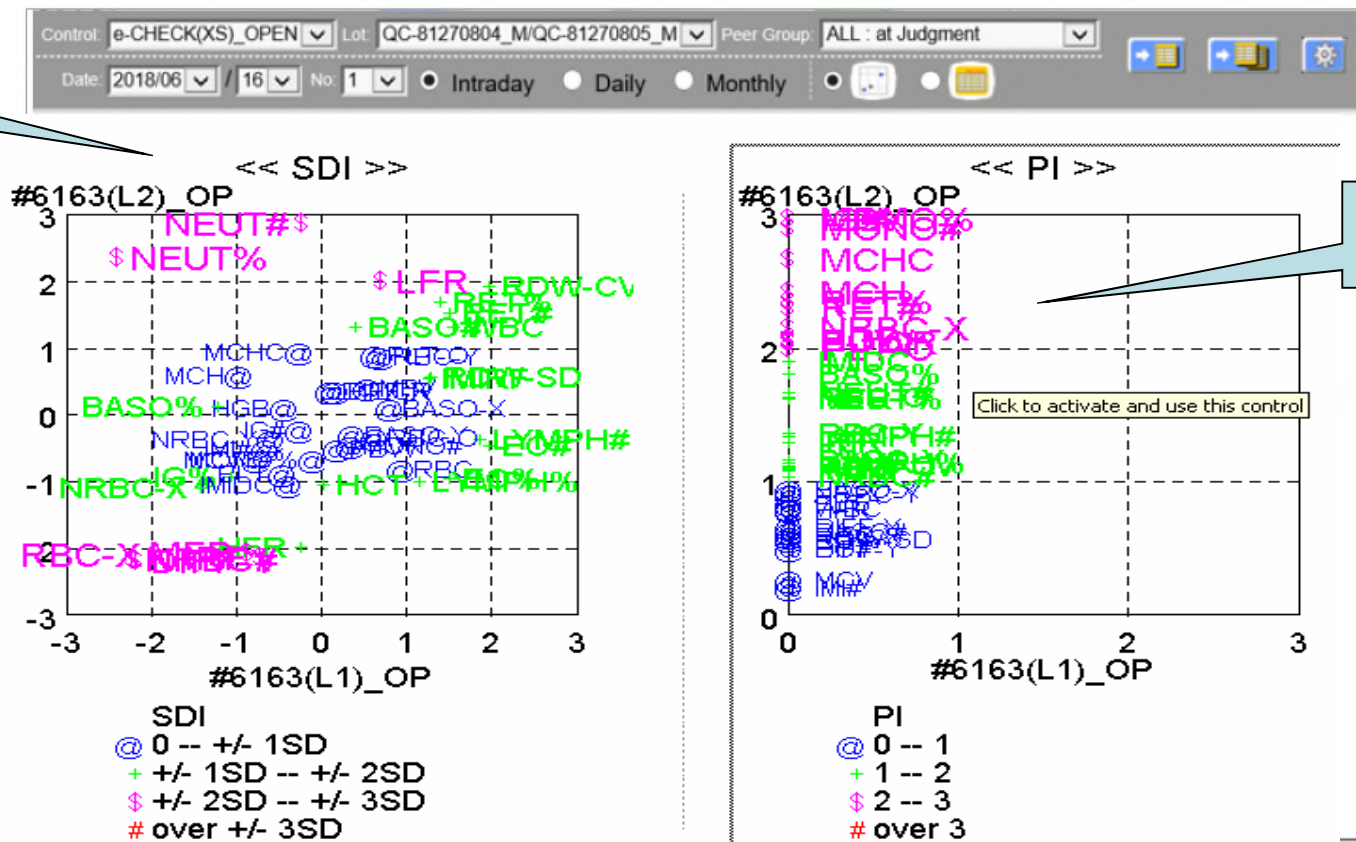




SDI/PI Twin plot

SDI and PI are calculated based on your data and peer group statistics. SDI and PI are plotted for all parameters.

SDI Plot





SDI/PI Twin plot

In Num.Table display, the content differs whether selected peer group is <at Judgment> or not.

Peer Group <at Judgment>

Parameter	#9256(L1)_CL						#9256(L2)_CL						T_Judge
	Mean	SD	SDI	PI	N	Judge	Mean	SD	SDI	PI	N	Judge	
At Judge	Mean	SD	Inter-SD	Intra-SD	lab		Mean	SD	Inter-SD	Intra-SD	lab		
RBC	237.666	2.081	1.455	1.158	3	-	446.500	3.535	0.892	1.349	2	-	*
Group Mean	234.868	2.631	1.922	1.796	398		443.875	3.937	2.939	2.619	467		
HGB	6.000	0.000	1.142	0.000	3	-	12.400	0.000	1.152	0.000	2	-	*
Group Mean	5.936	0.073	0.055	0.048	398		12.298	0.118	0.088	0.078	467		

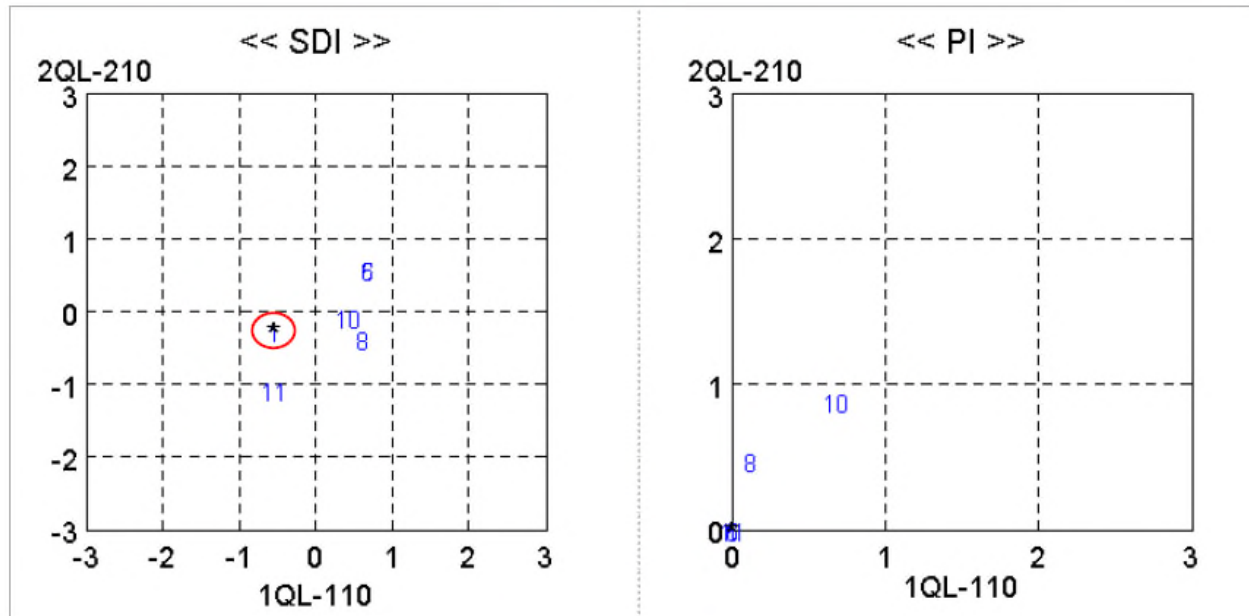
Peer Group not <at Judgment>

Parameter	#9256(L1)_CL					#9256(L2)_CL				
	Mean	SD	SDI	PI	N	Mean	SD	SDI	PI	N
Your Cumulative Value	Mean	SD	Inter-SD	Intra-SD	N	Mean	SD	Inter-SD	Intra-SD	N
Latest Statistics	Mean	SD	Inter-SD	Intra-SD	lab	Mean	SD	Inter-SD	Intra-SD	lab
RBC	237.666	2.081	1.443	1.170	3	446.500	3.535	0.884	1.362	2
Your Cumulative Value	236.697	1.021			40	445.859	2.706			40
Latest Statistics	234.867	2.631	1.939	1.778	400	443.881	3.936	2.959	2.594	468



SDI/PI Twin Plot in Group

SDI and PI are calculated based on the peer group statistics in the selected group and your measurement results (raw data) or daily/monthly statistics. SDI and PI of instruments in the group are plotted for all parameters.



- Your instrument is plotted as “*” mark.
- Other instruments are plotted as the marks which have been set in “Plot Mark Settings”. Only the Group Manager can change the setting.



SDI/PI Twin Plot in Group

In Num.Table display, the content differs whether the selected data is Intraday data or not.

Below is the Num. Table if Intraday data is selected.

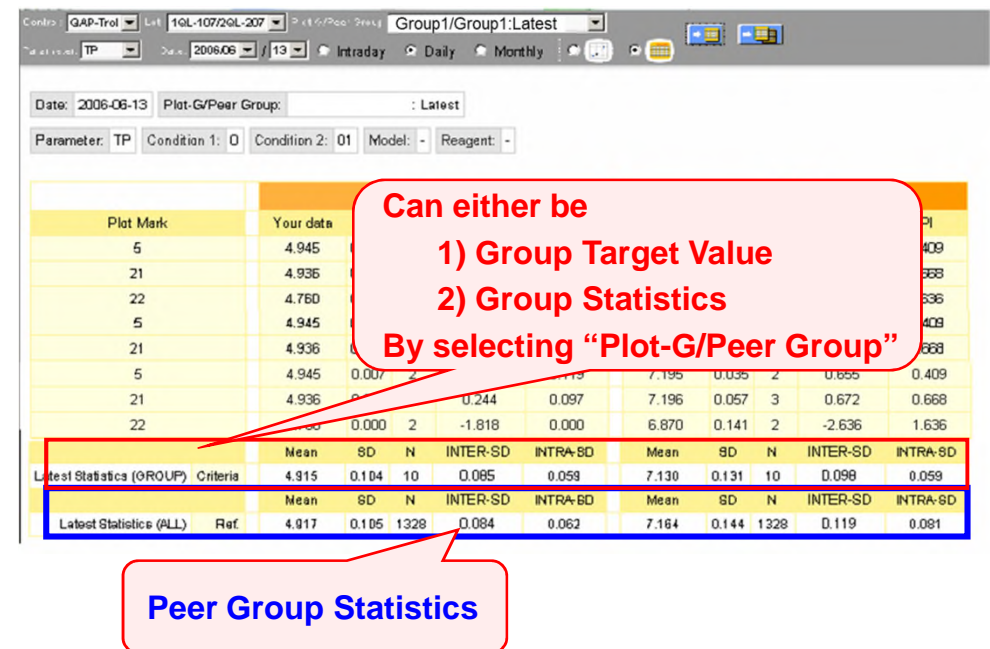
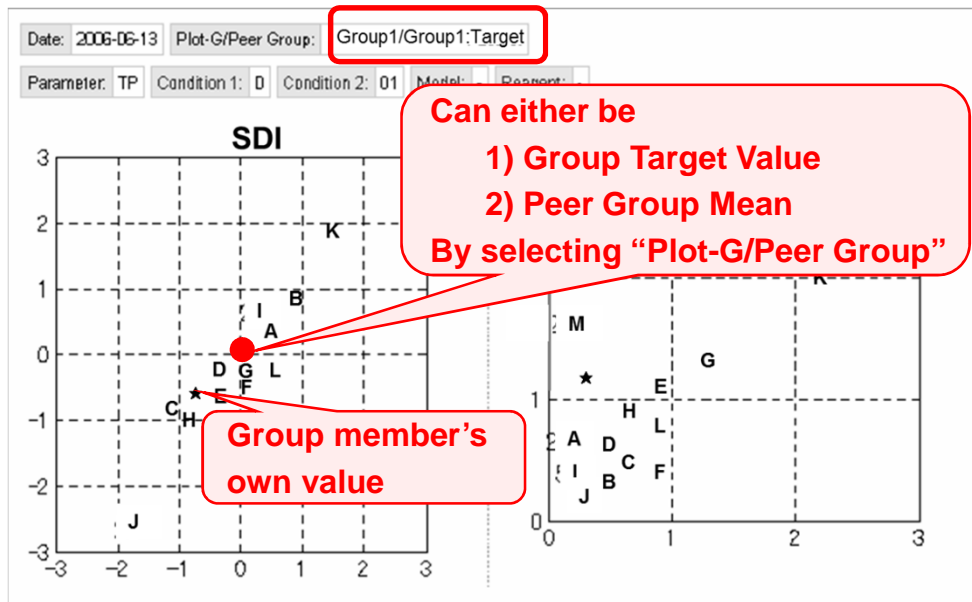
		1Q1-110				2Q1-210			
Plot Mark		Your data	Time(HH:MM:SS)	No	SDI	Your data	Time(HH:MM:SS)	No	SDI
	*	116.000	08:23:18	1	0.285	260.000	08:23:27	1	1.176
	21	115.000	15:54:05	1	-0.326	251.000	15:54:09	1	-1.385
	5	114.000	08:23:15	1	-0.938	251.000	08:23:24	1	-1.385
	1	118.000	11:29:15	1	1.508	257.000	11:30:23	1	0.322
	11	116.100	17:24:19	4	0.346	258.800	17:24:52	4	0.834
	12	114.700	15:08:54	2	-0.510	250.400	15:09:20	2	-1.556
	7	116.000	10:59:02	2	0.285	259.000	10:59:26	2	0.891
	9	117.000	13:27:32	3	0.896	252.000	14:34:00	3	-1.101
		Mean	SD	N	INTER-SD	Mean	SD	N	INTER-SD
Latest Statistics (GROUP)	Ref.	115.886	1.463	22	1.067	255.681	3.268	22	2.503
		Mean	SD	N	INTER-SD	Mean	SD	N	INTER-SD
Latest Statistics (ALL)	Criteria	115.533	2.046	1695	1.634	255.868	4.272	1686	3.512

- The group's latest statistics and the total latest statistics are displayed.



Features Group Members

1) Group Members can use “SDI/PI Twin Plot in Group” to review the results in comparison to other group members.



2) Group Members can check each other’s data and error occurrence, when permission is given by the Group Manager.



Features for Group Manger

- 1) Group Manger can view the data of all analyzers registered to its group.
- 2) Group Manager can customize the configuration for QC Monitoring, by turning the judgment setting ON/OFF.

Menu Category: CHEMISTRY

Analyzer Name	Category	Count	Icons
Chemistry	Chemistry	11	[Icons]
検診センター	Chemistry	311	[Icons]
病院	Chemistry	4211	[Icons]
病院	Chemistry	221	[Icons]
病院	Chemistry	4231	[Icons]
病院	Chemistry	4241	[Icons]

QC Monitoring Logic Target Setting Error Status List Setting Plot Mark Setting

Control: ALL Level: ALL Parameter: ALL

Control	Level	Param	Cond-1	Cond-2	4SDi	5SDi	3SDi	Action Limit	2PI	3PI	Trend	Shift	R-4SD	System Err	OneSide Err	Random Err
QAP-Trol	Level1	TP	0	01	OFF	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
QAP-Trol	Level1	ALB	0	01	OFF	ON	ON	QI								
QAP-Trol	Level1	ALB	0	02	OFF	ON	ON	QI								
QAP-Trol	Level1	ALB	0	03	OFF	ON	ON	QI								
QAP-Trol	Level1	TTT	0	02	OFF	ON	ON	QI								

Control: QAP-Trol Level: Level1 Parameter: TP
Condition1: 0 Condition2: 01

Type	Err Name	Code	Judgment Setting
Excess-series (accuracy)	4SDi Over	4S	<input checked="" type="radio"/> ON <input type="radio"/> OFF
	5SDi Over	5S	<input checked="" type="radio"/> ON <input type="radio"/> OFF
	3SDi Over	3S	<input checked="" type="radio"/> ON <input type="radio"/> OFF
	Action Limit Over	AL	<input checked="" type="radio"/> ON <input type="radio"/> OFF ± 20 %
Excess-series (precision)	2PI Over	2P	<input checked="" type="radio"/> ON <input type="radio"/> OFF
	3PI Over	3P	<input checked="" type="radio"/> ON <input type="radio"/> OFF
Trend-series	Trend	TR	<input checked="" type="radio"/> ON <input type="radio"/> OFF
	Shift	SH	<input checked="" type="radio"/> ON <input type="radio"/> OFF
	R-4SD Over	R4	<input checked="" type="radio"/> ON <input type="radio"/> OFF
Comparison-series	System Error	SE	<input checked="" type="radio"/> ON <input type="radio"/> OFF
	One-side Error	OE	<input checked="" type="radio"/> ON <input type="radio"/> OFF
	Random Error	RE	<input checked="" type="radio"/> ON <input type="radio"/> OFF



Features for Group Manger

3) Group Manger can customize the Target Setting.
 Target values can be specified either by statistical value or specific target value.

Lot No	Parameter	Cond.1	Cond.2	PeerGroup	Mean	SD	INTRA-SD	INTER-SD
1QL-107	TP	0	01	Statistics				
1QL-107	ALB	0	01	Statistics				
1QL-107	TTT	0	02	Statistics				
1QL-107	ZTT	0	01	Statistics				
1QL-107	ZTT	0	99	Statistics				
1QL-107	CK	9	11	Statistics				
1QL-107	AST	9	11	Statistics				
1QL-107	ALT	0	11	Statistics				
1QL-107	ALT	9	11	Statistics				
1QL-107	LD	9	11	Statistics				
1QL-107	ALP	9	11	Statistics				
1QL-107	AST	0	11	Statistics				

Parameter: TP Condition: 0 Condition2: 01
 Unit: G/DL

Peer Group: Statistics Target

Control Lot: 1QL-107

Mean:

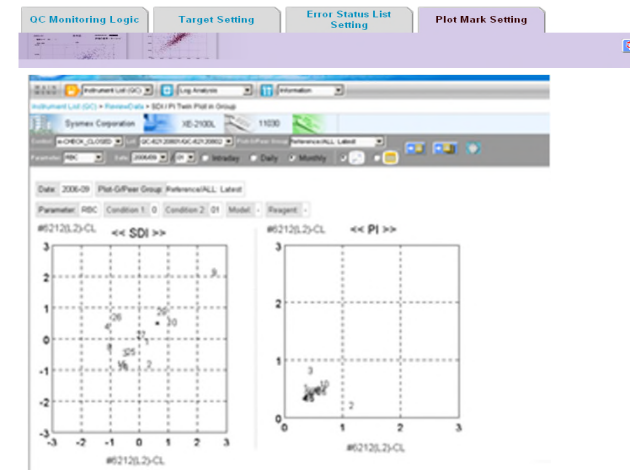
SD:

INTRA-SD:

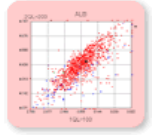
INTER-SD:

4) Group Manager can customize the configuration of the Plot Marks for “SDI/PI Twin Plot in Group.”

Customer Name	Model	Nickname	Plot mark	Size	Color	Disp-Order
みさと健科クリニック	Chemistry	PEジュール	21	3	Blue	1
ロシュ・ダイア1	Chemistry	MOD-D		5	Black	2
ロシュ・ダイア1	Chemistry	MOD-P	R	4	Red	3
公立藤岡総合病院	Chemistry	MOD-P1	29	3	Blue	4
公立藤岡総合病院	Chemistry	MOD-P2		5	Black	5
協和メディックス株式会社	Chemistry	MOD-OP	22	3	Blue	6
大阪医療センター	Chemistry	P-Modular		5	Black	7
大阪医療センター	Chemistry	M-PP	1	3	Blue	8
大阪医療センター	Chemistry	M-PPE	2	3	Blue	9
大阪南医療センター	Chemistry	2758401211		5	Black	10
大阪南医療センター	Chemistry	2758401221		5	Black	11
大阪南医療センター	Chemistry	PPE	3	3	Blue	12
大阪南医療センター	Chemistry	PE	4	3	Blue	13

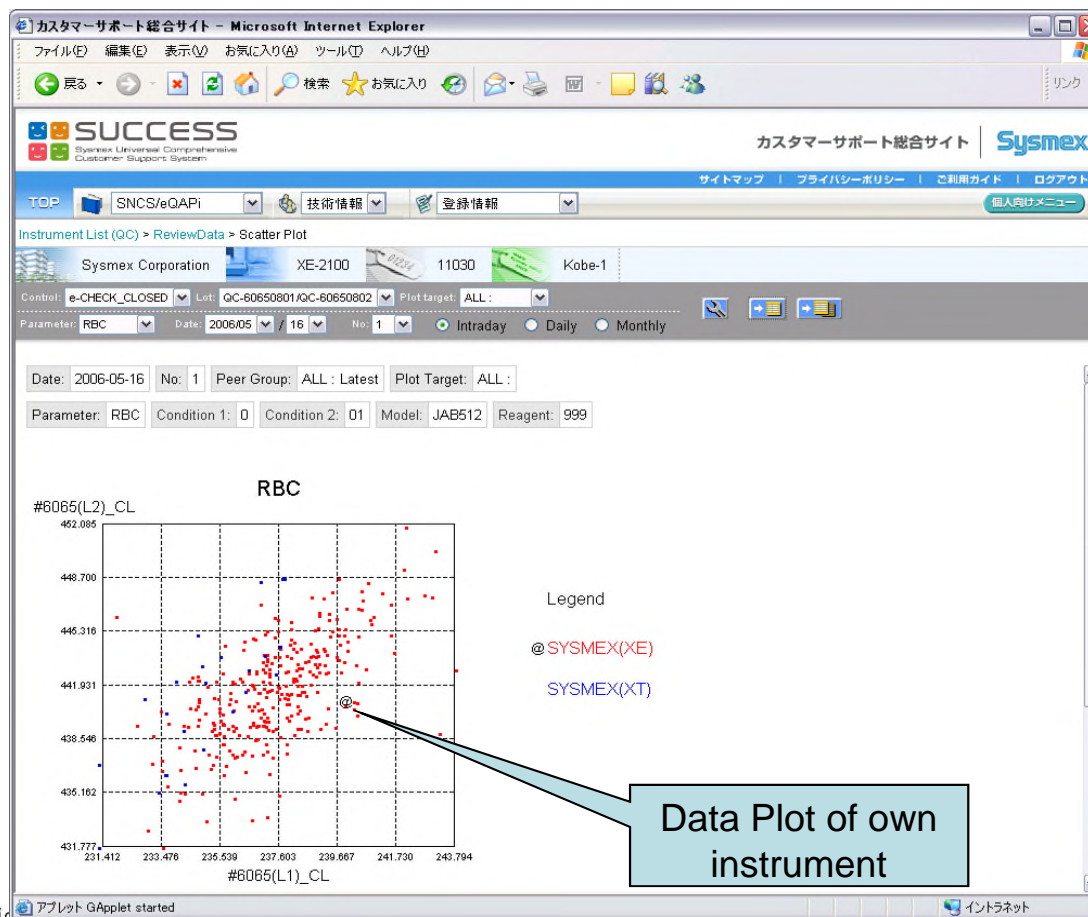


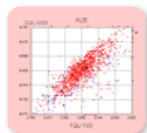
5) Group Manger can also configure whether or not to (1) receive error notification email, and (2) allow group members to view each other’s data.



Scatter Plot

Compares mean value of cumulative own instrument data with all instrument data for each parameter at condition 2 (model of analyzer).

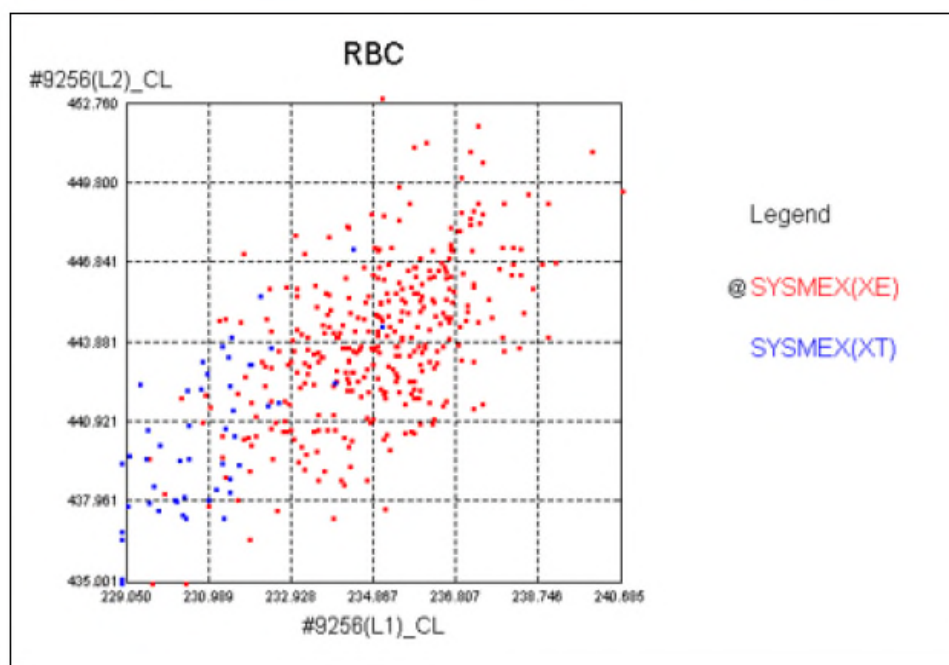




Scatter Plot

The cumulative mean of each instrument using the same combination of control lot are plotted in color for each Condition-2 per parameter.

- Your measurement result (intraday data) or the mean value (daily/ monthly data) is plotted as the “@” mark. The position of your data can be compared with the distribution of peer groups.



■ Error Judgment in SNCS

There are 3 factors for the Error Judgment in SNCS:

1) Indexes of evaluation

- SDI
- PI

2) 12 error types.

- Excess-Series (Accuracy)
- Excess-Series (Precision)
- Trend Series
- Comparison-Series

3) Timing of error Judgment

- Real-time Judgment
- Judgment during processing

12 Error Types

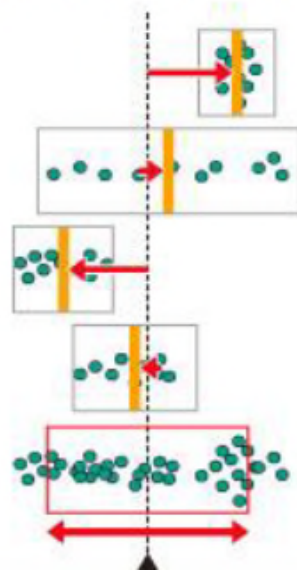


classification	contents	explanation
Excess-series (accuracy)	4SDi Over	Your data > mean +/- 4SD of own cumulative data
	5SDI Over	Your data > mean +/- 5xInter-SD of standard statistic data
	3SDI Over	Your data > mean +/- 3xInter-SD of standard statistic data
	Action Limit Over	Your data > mean of standard statistic data +/- permitted %
Excess-series (precision)	2PI Over	Your SD > 2xIntra-SD of standard statistic data
	3PI Over	Your SD > 3xIntra-SD of standard statistic data
Trend-series	Trend	Your data > mean +/- 2.7*Inter-SD of standard statistic data (continue 4 times, ascent or descent same direction)
	Shift	Your data > mean +/- 2.7*Inter-SD of standard statistic data (continue 10 times, same direction)
	R-4SDI Over	Your data – previous transmitted mean data > +/- 4xInter-SD of standard statistic data
Comparison-series (High mode, Low mode)	System Error	SDI plot position of your data for 2 conc. is located at System error pos.
	One-side Error	SDI plot position of your data for 2 conc. is located at One-side error position
	Random Error	SDI plot position of your data for 2 conc. is located at Random error position

Accuracy and Precision

In the SNCS system, individual QC data is evaluated for accuracy and precision. We use the **SDI** (Standard Deviation Index) to indicate accuracy, and **PI** (Precision Index) to indicate precision.

Mean of each analyzer



..... Lab A

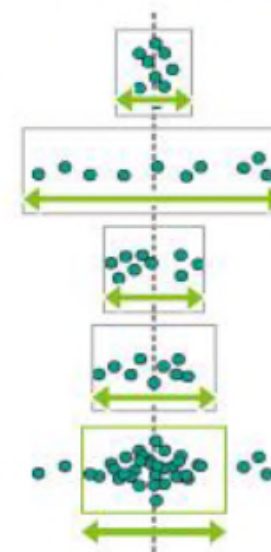
..... Lab B

..... Lab C

..... Lab D

..... Total

Variation of each analyzer



$$\text{SDI} : \frac{\text{Your mean} - \text{Peer Group Mean}}{\text{Inter-SD}}$$

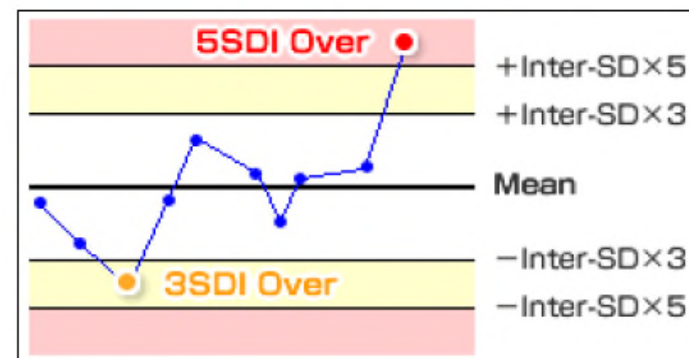
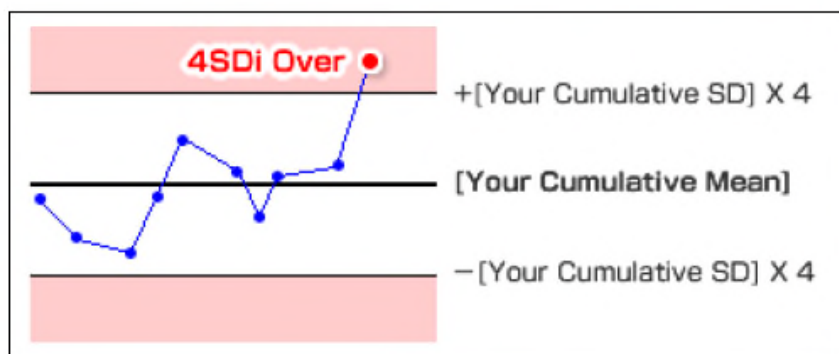
$$\text{PI} : \frac{\text{Your SD}}{\text{Intra-SD}}$$

Excess-Series 1 (Accuracy)

Below table shows the type of QC errors generated and their definitions.

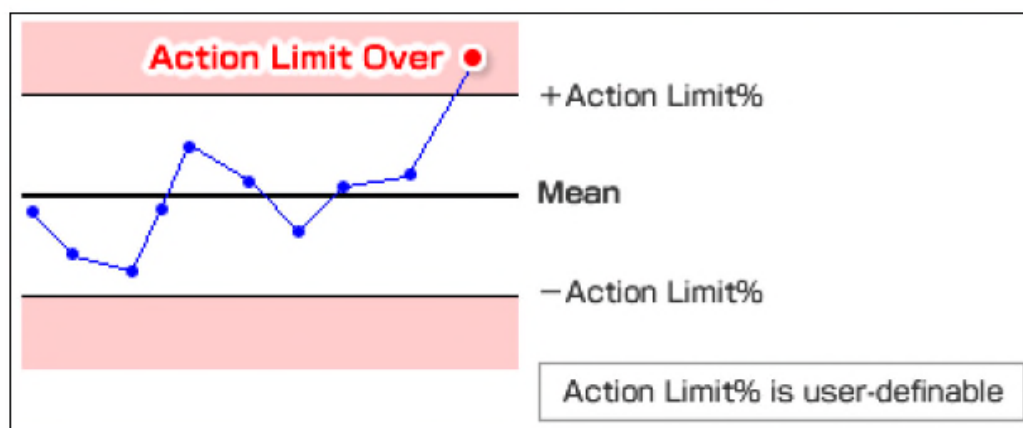
Error Judgment	QC error	Definition
Excess-series (accuracy)	4SDi Over	[Your data] exceeds the value of [Your Cumulative Mean] +/- ([Your Cumulative SD] x 4).
	5SDI Over	[Your data] exceeds the value of [Group Mean] +/- ([Peer Group Inter-SD or Total-SD] x 5).
	3SDI Over	[Your data] exceeds the value of [Group Mean] +/- ([Peer Group Inter-SD or Total-SD] x 3).
	Action Limit Over	[Your data] exceeds the value of [Group Mean] +/- [Action Limit %].

Example of graphs showing **4SDi Over** and **5SDI Over** errors.



Excess-Series 1 (Accuracy)

Example of graph showing **Action Limit Over** error



Note:

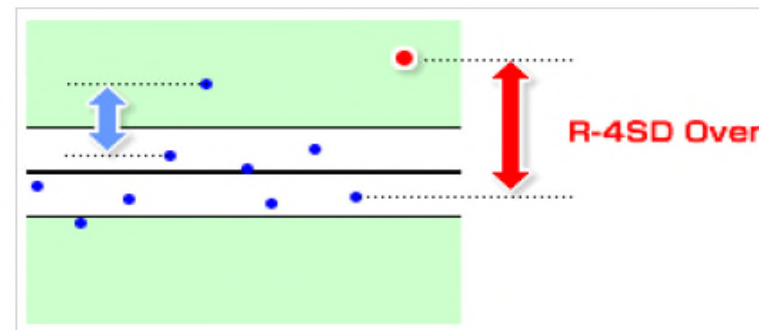
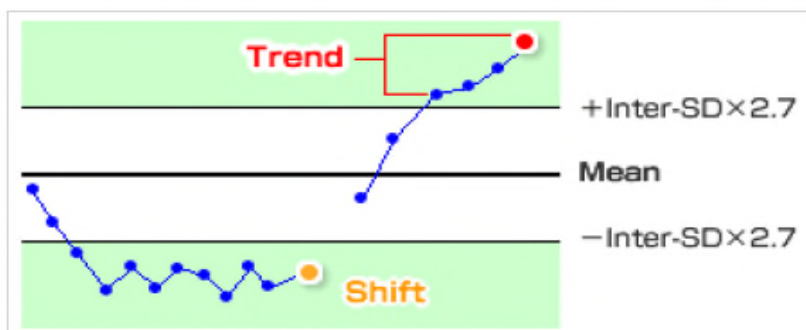
1. The data judged as **5SDI Over** is not included in peer group statistics (total/group).
2. 4SDi is judged only when “your cumulative data” is
[SD \geq 0.01] and [CV \geq 1] and [No. of days \geq 60]

Excess-Series (Precision) & Trend

Below table shows the type of QC errors generated and their definitions.

Error Judgment	QC error	Definition
Excess-series (precision)	2PI Over	[Your SD] exceeds [Peer Group Intra-SD] x 2.
	3PI Over	[Your SD] exceeds [Peer Group Intra-SD] x 3.
Trend-series	Trend	[Your data] exceeds the value of [Group Mean] +/- ([Peer Group Inter-SD or Total-SD] x 2.7) for 4 times in a row in uptrend/downtrend.
	Shift	[Your data] exceeds the value of [Group Mean] +/- ([Peer Group Inter-SD or Total-SD] x 2.7) and is in the same position for 10 times in a row.
	R-4SDI Over	The difference between the previous [Your data] and the current [Your data] exceeds [Peer Group Inter-SD or Total -SD] x 4.

Example of graphs showing Trend and R-4SDI Over errors.



Comparison-Series

Below table shows the type of QC errors generated and their definitions.

Error Judgment	QC error	Definition
Comparison-series (High mode, Low mode)	System Error	SDI plot position of [Your data] of 2 levels is located in system error. SE indicates High mode, and se indicates Low mode.
	One-side Error	SDI plot position of [Your data] of 2 levels is located in onside error. OE indicates High mode, and oe indicates Low mode.
	Random Error	SDI plot position of [Your data] of 2 levels is located in random error. RE indicates High mode, and re indicates Low mode.

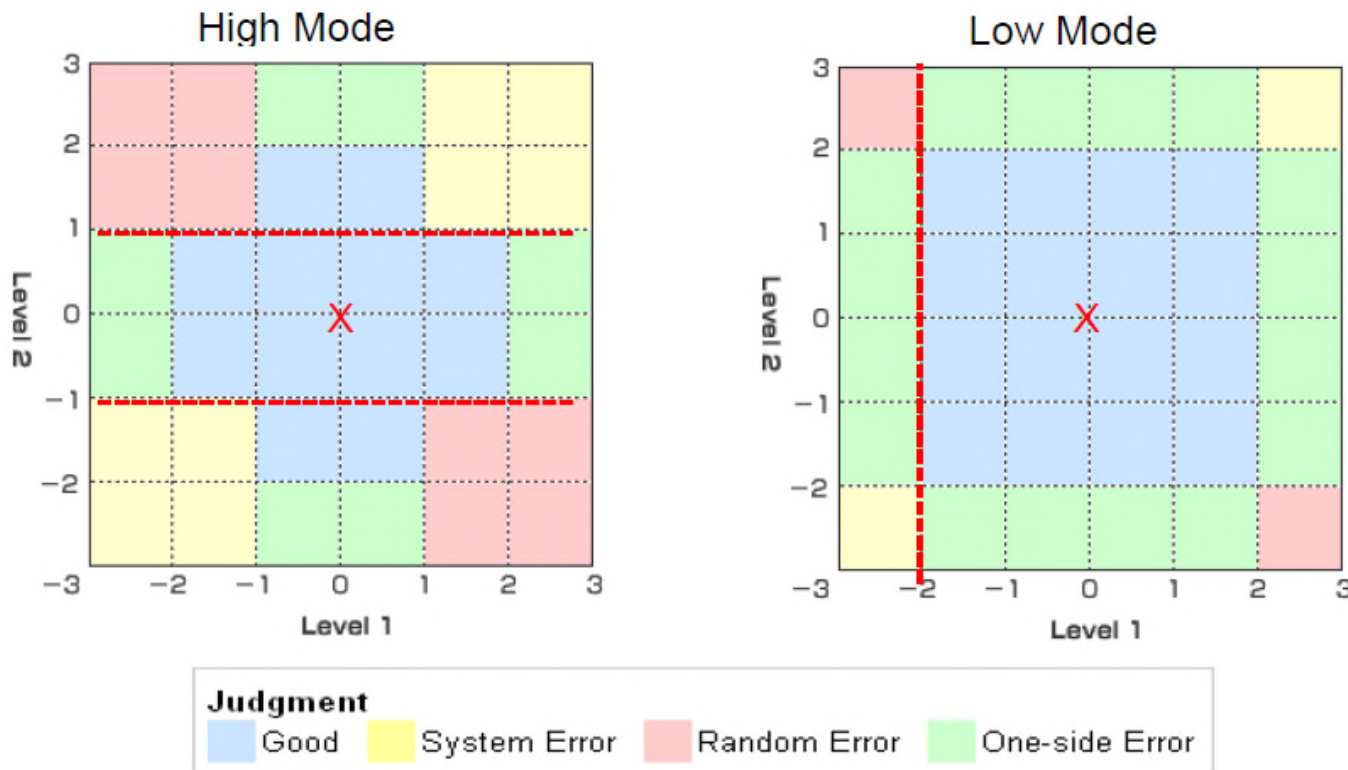
Lot pairing used for comparison-series judgment can set by customers. Customer can select the error detection mode as “High mode” or “Low mode” depending on their laboratory QC policy.

- “Low mode” generates an error when the control data exceeds $\pm 2SD$
- “High mode” is more stringent and generates an error when the control data exceeds $\pm 1SD$

Comparison-Series

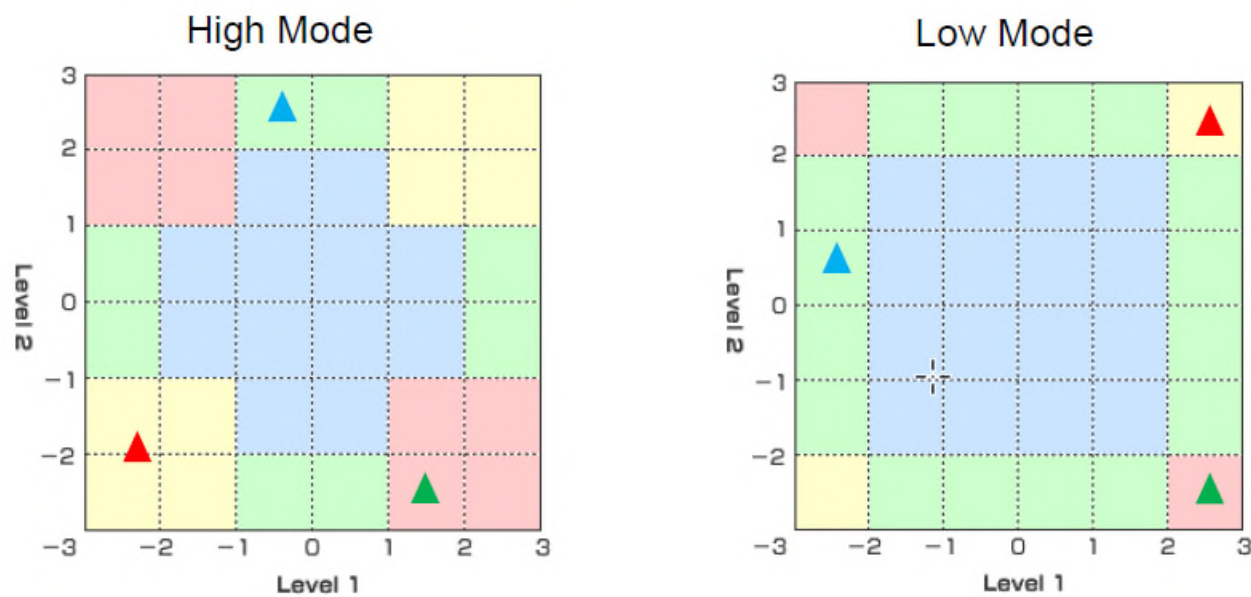
“Your data” is judged by its position in the matrix of the 2 control levels.

- Center of the matrix marked with (x) represent the Group Mean of Level 1 & 2.
- The grid line (-----) represent Peer Group Inter-SD



Comparison-Series

- ▲ A “System Error” flag is generated when the measurement results of both control levels shows the same trend.
- ▲ A “Random Error” flag is generated when the measurement results of both levels shows opposite trends; one is a high value and the other is low value.
- ▲ A “One-Side Error” flag is generated when one of the result is within $\pm 1SD$ (high mode) and within $\pm 2SD$ (low mode).



Error notification mail for QC error (method Q)

Dear customer,
This is an automatic error notification mail from SNCS service provided by Sysmex Corporation.
Some suspected error(s) has been detected in the following instrument(s).

Laboratory's Name: SYSMEX ASIA PACIFIC PTE LTD. SERVICE ORG
Model: XE-2100
Serial No: A2998
Nickname: XE-AlphaN
Instrument Code: 0000019866

-< Excess-Series/Trend-Series Error >-----
[Control: e-CHECK_CLOSED_3QC-61630803_S Level3]

Error occurrence time: 11-JUL-2006 15:57
Parameter: BASO# Unit: E3/uL
Data type: Intraday
Measurement day: 11-JUL-2006 Number: 1 Time: 10:18
Your data Measurement data: 14.730
Your cumulative data Mean: 14.524 SD: 0.269 N: 5
Statistics - ALL Mean: 13.937 SD: 0.285 N: 47
Inter-SD: 0.225 Intra-SD: 0.176
Judgment 3SDI Over

Please visit <http://sncs-web.jp/global/> , log-in SNCS-web, and check the details of the detected error(s) for your instrument(s).
If you need further advices, please contact your Sysmex service representatives.
Sincerely,
SNCS Administrator
Sysmex Corporation

SNCS Web Information Service

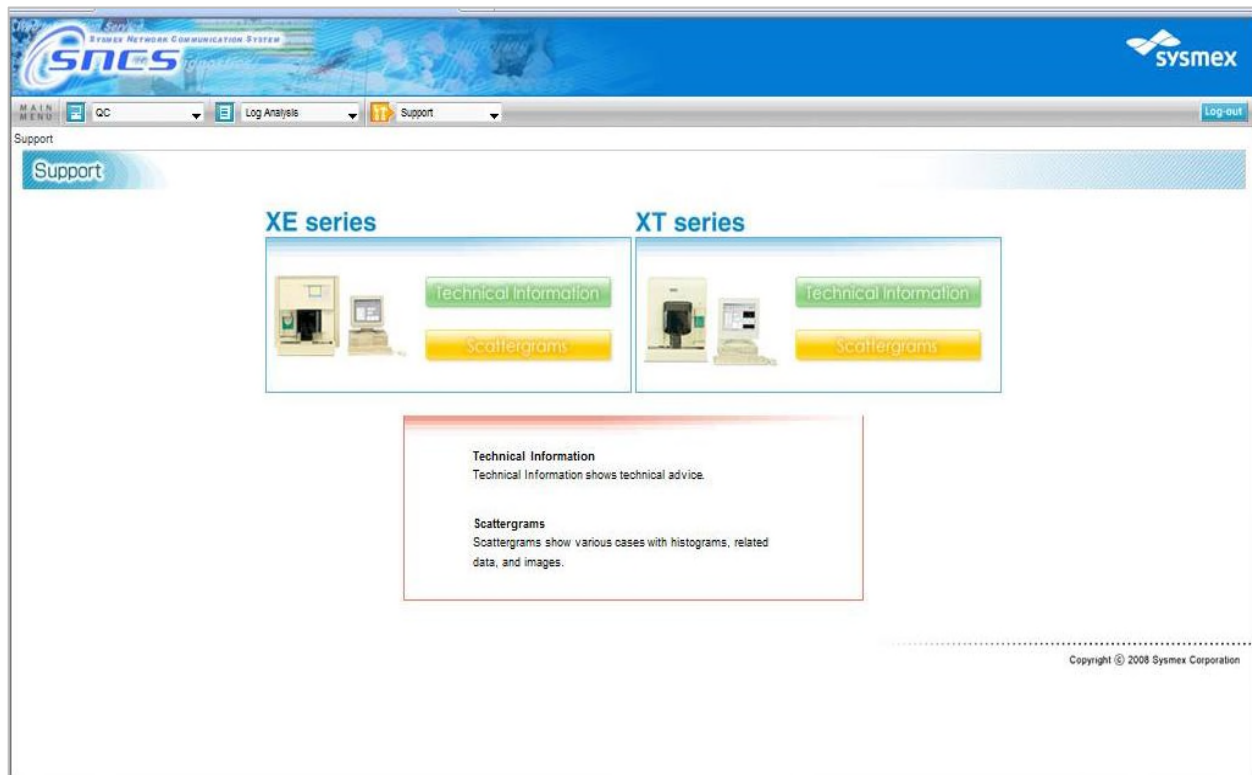


■ Web Information Service

For AP customers, Web Information Service is provided on following URL:

<http://sncs-web.com/ap/>

The contents are managed by SAP, so adding the contents for Biochemistry customers can be considered in SAP.



Browser address bar: <https://sncs-web.com/ap/menu/index.htm>

Navigation menu: MAIN MENU | Instrument List (QC) | Log Analysis | **Support** | Log-out

Support > XE Series Scattergrams > Acute myeloid leukemia (AML)-M1(1)

XE Series Scattergrams

Acute myeloid leukemia (AML)-M1(1)

Information form XE-2100

XE-2100 measurement data

WBC	3.74	[10 ⁹ /L]
RBC	2.96	[10 ¹² /L]
HGB	88	[g/L]
HCT	25.3	[%]
MCV	85.5	[fL]
MCH	29.7	[pg]
MCHC	348	[g/L]
PLT &	35	[10 ⁹ /L]
RDW-SD	48.0	[fL]
RDW-CV	15.4	[%]
PDW	14.8	[fL]
MPV	11.5	[fL]
P-LCR	37.0	[%]
PCT	0.04	[%]
NEUT	0.27	[10 ⁹ /L] 7.2
LYMPH	2.25	[10 ⁹ /L] 60.2
MONO	1.22	[10 ⁹ /L] 32.6
EO	0.00	[10 ⁹ /L] 0.0
BASO	0.00	[10 ⁹ /L] 0.0

Manual eye count data

Stab	0.0	[%]
Seg	0.0	[%]
Lymph	22.5	[%]
Mono	0.0	[%]
Eo	0.0	[%]
Baso	0.0	[%]

Browser: https://sncs-web.com/ap/menu/index.htm | SNCS

Navigation: Instrument List (QC) | Log Analysis | Support

Banner: SNCS SYSMEX NETWORK COMMUNICATION SYSTEM

Support > XE Series Scattergrams > Acute myeloid leukemia (AML)-M1(1)

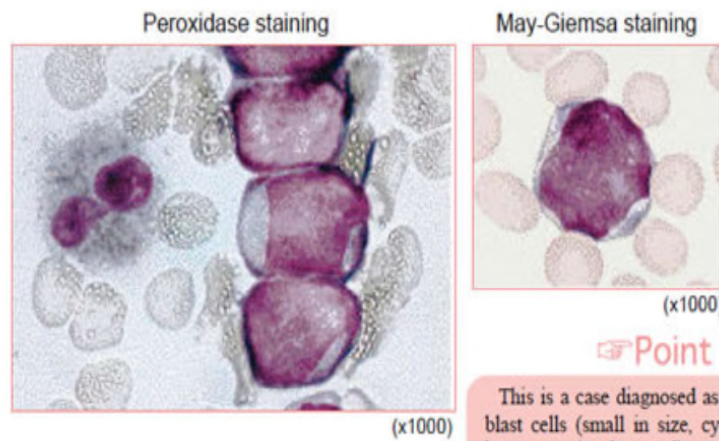
XE Series Scattergrams

- Neutrophilia
- Lymphocytosis
- Monocytosis
- Eosinophilia
- Basophilia
- Acute myeloid leukemia (AML)-M1(1)
- Acute myeloid leukemia (AML)-M1(2)
- Acute myeloid leukemia (AML)-M1(3)
- Acute myeloid leukemia (AML)-M2
- Myelodysplastic syndrom (MDS)-RAEB-I

CD marker	Value	CD marker	Value	CD marker	Value
CD2	6.0	CD10	0.2	CD13	93.0
CD3	2.7	CD19	1.1	CD15	0.3
CD4	1.3	CD20	1.4	CD33	28.9
CD5	3.6	HLA-DR	12.3	CD34	94.7
CD7	4.0			CD36	6.6
CD8	2.4			Other	
				CD41	1.1

and CD33 (makers for granulocytic and monocytic series). A negative result was obtained for CD36, expressed in the monocytic and platelet series. Therefore this case is considered to be a myeloid leukemia.

Information from blood smear preparation



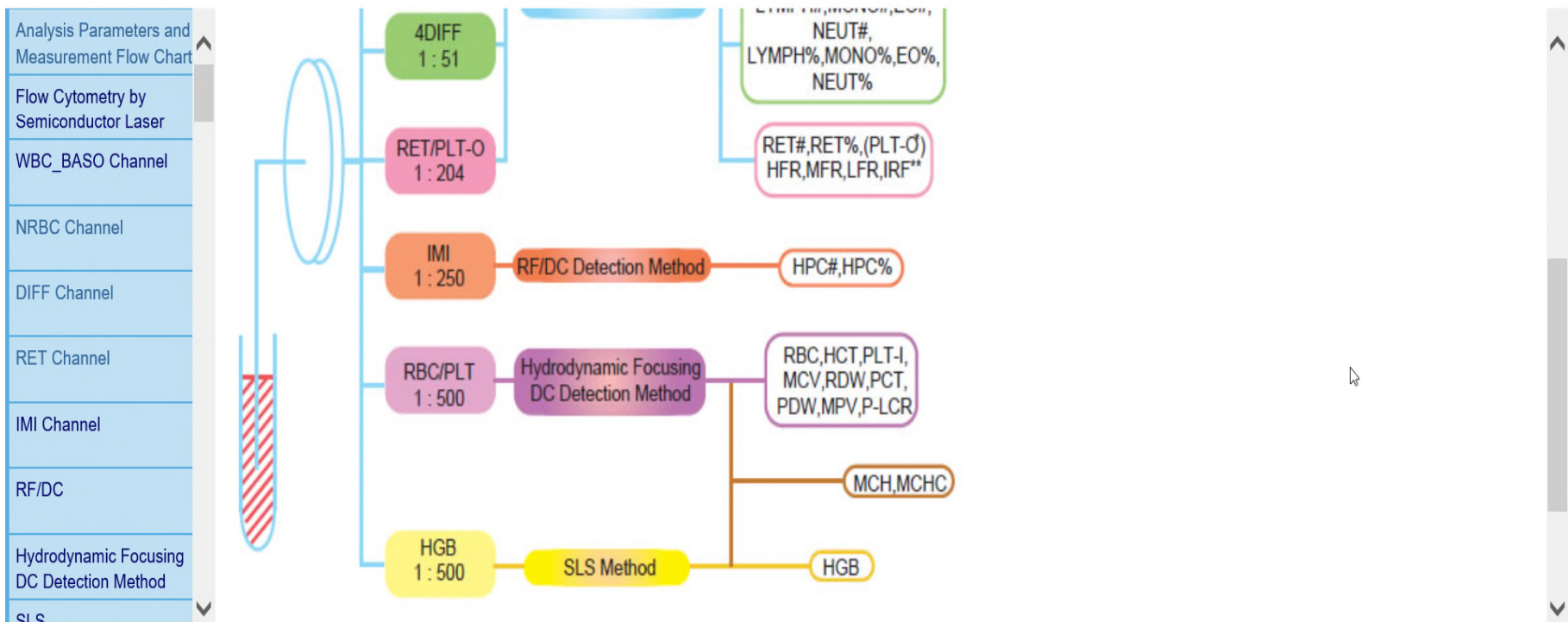
Point
This is a case diagnosed as AML-M1. Type I blast cells (small in size, cytoplasm is narrow, granules is abnormal) remain in peripheral

Browser address bar: https://sncs-web.com/ap/menu/index.htm

Navigation menu: MAIN MENU | Instrument List (QC) | Log Analysis | Support | Log-out

Support > XE Series Technical Information > Analysis Parameters and Measurement Flow Chart

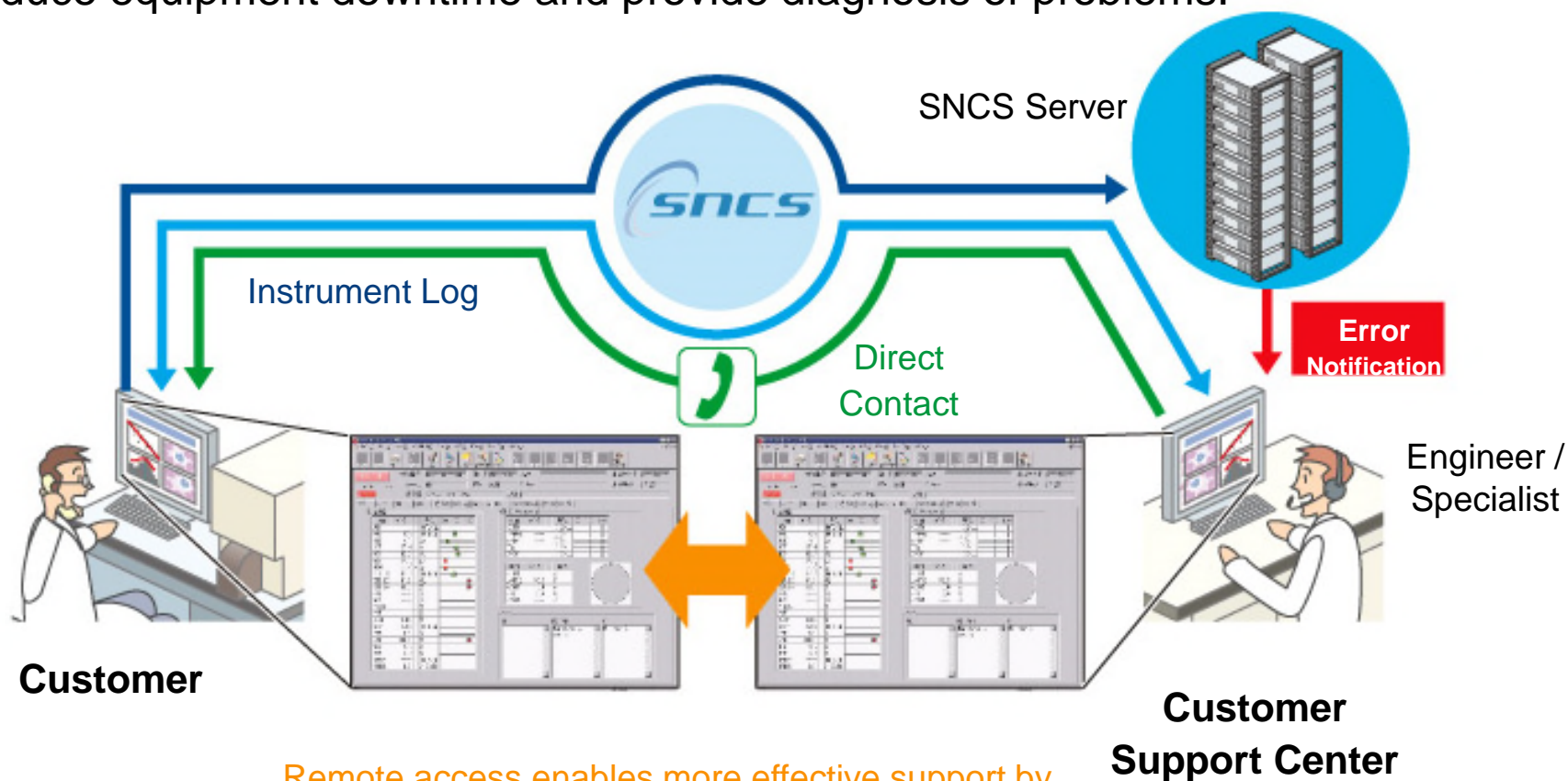
XE Series Technical Information



Online Support

Rapid service via online network!

Reduce equipment downtime and provide diagnosis of problems.



Remote access enables more effective support by sharing same instrument screen.

Browser: https://sncs-web.com/ap/menu/index.htm

Navigation: Instrument List (QC) | **Instrument List (LOG)** | Support

Current Page: Instrument List (LOG) > ReviewData > Log Chart


Device: Vichavej International (Nongk) | XT-1800i | 12029

Month: 2018/8

Select Displayed Message

	Message	
<input checked="" type="checkbox"/>	0.7 kg/cm ² Error	0
<input checked="" type="checkbox"/>	1.6 kg/cm ² Error	0
<input checked="" type="checkbox"/>	2.5 kg/cm ² Error	0
<input checked="" type="checkbox"/>	300 mmHg Error	0
<input checked="" type="checkbox"/>	500 mmHg Error	0
<input checked="" type="checkbox"/>	0.07MPa Error	0
<input checked="" type="checkbox"/>	0.16MPa Error	0
<input checked="" type="checkbox"/>	0.25MPa Error	0
<input checked="" type="checkbox"/>	-0.04MPa Error	0
<input checked="" type="checkbox"/>	-0.07MPa Error	0
<input type="checkbox"/>	Pressure Lower Error	0
<input type="checkbox"/>	FCM Detector Temp High	0
<input type="checkbox"/>	FCM Detector Temp Low	0
<input type="checkbox"/>	Env Temp High	0
<input type="checkbox"/>	Env Temp Low	0
<input type="checkbox"/>	FCM RU Temp High	0

welcome



Log-out

	2018-08-12	2018-08-13	2018-08-14
0.7 kg/cm ² Error	0	0	0
1.6 kg/cm ² Error	0	0	0
2.5 kg/cm ² Error	0	0	0
300 mmHg Error	0	0	0
500 mmHg Error	0	0	0
0.07MPa Error	0	0	0
0.16MPa Error	0	0	0
0.25MPa Error	0	0	0
-0.04MPa Error	0	0	0
-0.07MPa Error	0	0	0
Pressure Lower Error	0	0	0
FCM Detector Temp High	0	0	0
FCM Detector Temp Low	0	0	0
Env Temp High	0	0	0
Env Temp Low	0	0	0
FCM RU Temp High	0	0	0

	Date	2018-08-01	2018-08-02	2018-08-03	2018-08-04	2018-08-05
0.7 kg/cm ² Error	Number	0	0	0	0	
	AL					
1.6 kg/cm ² Error	Number	0	0	0	0	
	AL					
2.5 kg/cm ² Error	Number	0	0	0	0	
	AL					
300 mmHg Error	Number	0	0	0	0	
	AL					
500 mmHg Error	Number	0	0	0	0	
	AL					

Lighting the way **with diagnostics**