

RMT manual

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1 Starting RMT and logging in

Any internet browser serves to run the RMT (eg. Mozilla Firefox, Internet Explorer). A log in page appears after entering <http://users.nordit.cz/> and the login dialog appears after clicking anywhere in the page.

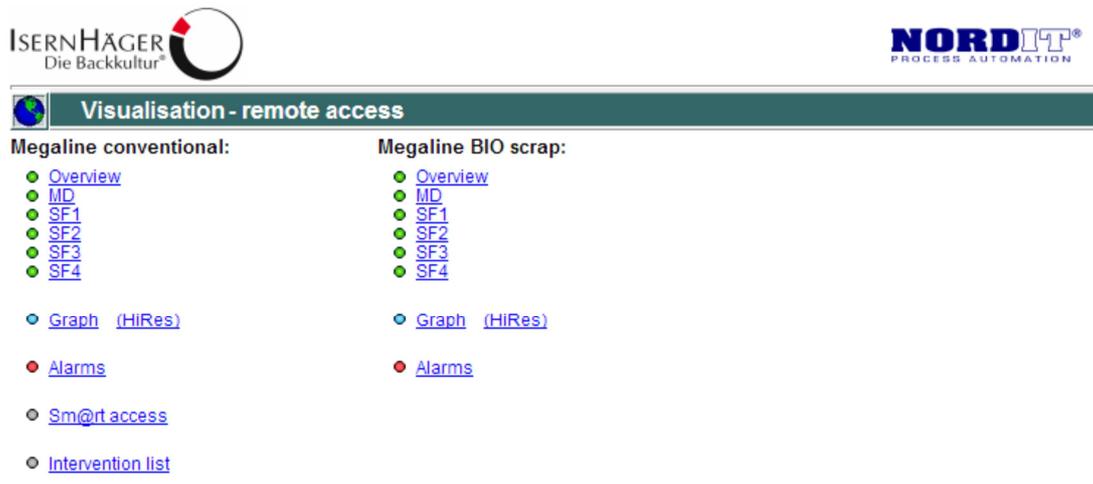


Picture 1: Login window

You will be redirected to a specific automation system in your bakery, or if you are a multi user to a group of your automation systems in your bakeries after entering your password.

1 Main menu and monitoring RMT

- 1 The whole RMT is made to monitor the proces of fermentation intuitivly. However, it is necessary to become familiar with its basic controlling elements. In the main menu are links to each screen, chart, alarm, etc.

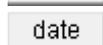
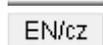
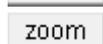
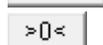
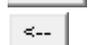
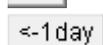
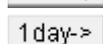
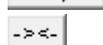


Picture 2: Main menu

RMT technology is divided into individual panels. Main panel “Overview“ shows all technology with the most important data. The other panels provide full information on the production process of the specific fermenter or the technology. It is possible to get back to the main menu by clicking “home“ ...

1.1 Archived data recorded in charts

Data server saves measured data continuously from the technological process. Panel with charts accessible by clicking on “Interactive Chart“ serves to view these data retrospectively. Even though charts controlling is quite intuitive, we summarize their basic features:

	- group of waveforms switch (by double click)
	- start date and time setting
	- graph recovery (retrieve the current values)
	- language selection
	- detailed viewing of waveforms (click and drag)
	- offset adjustment in the cursor position (relative measurement)
	- moving back in time
	- moving forward in time
	- moves 1 day ago
	- moves 1 day forward
	- change of time grid (compression)
	- change of time grid (expansion)

If your chart doesn't appear, install the current Java plugin for your browser using the link below.

Google Chrome: <http://java.com/en/download/chrome.jsp?locale=en>

Mozilla Firefox: http://java.com/en/download/windows_xpi.jsp?locale=en

Internet Explorer: http://java.com/en/download/ie_manual.jsp?locale=en

Another important condition to run the graphs is to enable port TCP/57080 on your company's firewall for outcoming and incoming traffic.



www.nordit.cz

If the chart does not display correctly, please download [Java SE Runtime](#)

Picture 3: Interactive graphs

1.2 Alarms and their history

RMT also shows all records of alarms. There are buttons under the table to browse through the alarm history  – *previous*,  – *following* and  – *the newest*. Every alarm is indicated by a reference number, textual description and is provided with a time indication of its creation.

Alarm Label	Origin Time	Expiry Time
MF2_GZ1 Lid opened.	2013-02-06 12:31:16 (+0100)	2013-02-06 12:31:28 (+0100)
MF2_GZ1 Lid opened.	2013-02-06 12:30:31 (+0100)	2013-02-06 12:30:43 (+0100)
Flour filling error (flour dosing hopper dx/dt).	2013-02-06 11:50:01 (+0100)	2013-02-06 11:50:13 (+0100)
No water flows to BM1.	2013-02-06 11:39:22 (+0100)	2013-02-06 11:39:31 (+0100)
SH20-LC Lid open.	2013-02-05 23:01:19 (+0100)	-
PIGing time exceeded.	2013-02-05 19:39:16 (+0100)	2013-02-05 19:56:31 (+0100)
PIGing time exceeded.	2013-02-05 19:28:46 (+0100)	2013-02-05 19:29:07 (+0100)
PIGing time exceeded.	2013-02-05 19:18:13 (+0100)	2013-02-05 19:18:46 (+0100)
PIGing time exceeded.	2013-02-05 19:02:16 (+0100)	2013-02-05 19:08:01 (+0100)
PIGing time exceeded.	2013-02-05 18:50:28 (+0100)	2013-02-05 18:50:43 (+0100)
PIGing time exceeded.	2013-02-05 18:31:43 (+0100)	2013-02-05 18:32:07 (+0100)
PIGing time exceeded.	2013-02-05 18:21:31 (+0100)	2013-02-05 18:21:37 (+0100)
PIGing time exceeded.	2013-02-05 18:10:43 (+0100)	2013-02-05 18:10:46 (+0100)
Flour filling error (flour dosing hopper dx/dt).	2013-02-05 17:59:16 (+0100)	2013-02-05 17:59:22 (+0100)
Bread mix dosing error (dx/dt).	2013-02-05 17:26:58 (+0100)	2013-02-05 17:27:01 (+0100)

  1-15 of over 60 

Picture 4: Active alarms and alarm history

2 Raw material consumption record

Daily consumption record of each raw material according to individual line – every row corresponds to one day (24 hours). In the last row there is a sum of the total raw materials consumption consumed per month.

Daily consumption of lines

february 2013

from: 01.02 00:00

Date	L2	L3	L6	L7	L8	Total[kg]:
01.02.2013 23:59	0	0	0	0	0	0
02.02.2013 23:59	0	0	0	0	0	0
03.02.2013 23:59	0	0	0	0	0	0
04.02.2013 23:59	617.99	217.17	502.3	213.46	11.97	1562.9
05.02.2013 23:59	462	149.42	379.39	224.01	11.97	1226.8
06.02.2013 23:59	415.41	150.31	472.23	191.44	11.99	1241.4
07.02.2013 23:59	429.14	130.5	366.7	183.98	13.02	1123.3
08.02.2013 23:59	421.3	132.04	461.78	102.57	20.4	1138.1
09.02.2013 23:59	36.3	0	0	0	0	36.3
10.02.2013 23:59	69.54	102.49	0	150.49	3.03	325.6
11.02.2013 23:59	430.15	239.25	414.77	299.44	12.58	1396.2
12.02.2013 23:59	407.06	175.44	531.5	113.51	12.09	1239.6
13.02.2013 23:59	507.1	152.18	493.28	15.75	10.68	1179
14.02.2013 23:59	408.68	124.87	573.25	15.74	10.69	1133.2
15.02.2013 23:59	349.46	129.28	529.62	19.94	10.72	1039
16.02.2013 23:59	14.38	0	0	0	0	14.4
17.02.2013 23:59	58.32	100.12	0	16.81	2.98	178.2
18.02.2013 23:59	401.91	170.1	329.89	0	11.99	913.9

Picture 5: Daily consumption of lines

2.1 Batches transaction and traceability

Raw material movement (input, output and other operations) are marked by a unique transaction number. Source, destination and raw material code is passed together with this number. Than it is possible to define various types of filtering. Thank to the raw material code, which stays the same all the time of it's processing, you can find for example the origin of each raw materials in a badly prepared mixture. You can also determine the total quantity of raw material x dosed into the line y in any period of time.

[Dosing out of lines](#)
 Line 2
 Choose period: from: 10.02.2013 @ 00:00:00
 to: 20.02.2013 @ 00:00:00

Picture 6: Adjustment for batch report

Batch to L2

from: 17.02.2013 13:58 to: 18.02.2013 13:58

Date	Line	Rcp	Mass [kg]
2013-02-18, 11:24	L2	23	117.25
2013-02-18, 11:03	L2	23	117.23
2013-02-18, 10:30	L2	23	116.6
2013-02-18, 10:17	L2	23	58.72
2013-02-18, 09:55	L2	23	117.48
2013-02-18, 09:44	L2	23	116.68
2013-02-18, 09:34	L2	23	116.51
2013-02-18, 08:02	L2	23	116.71
2013-02-18, 07:05	L2	23	116.57

Picture 7: Batch report

You can get to the detailed data of each mixture after clicking on the date and time of the dosage.

Batch report

Date: 2013-02-18, 11:03

Batch: 53535

RcpNo: 23 (Line: L2)

Components:	req	act	diff	Code
MAKA PSZENNA 480	108	108.28	0.28	(7050104)
CUKIER PUDER	0.5	0.501	0.001	(7050204)
SKROBIA Z TAPIOKI	3	3.021	0.021	(7050223)
SOL SPOZYWCZA	2	2.03	0.03	(7050219)
SORBINIAN POTASU	0.14	0.136	-0.004	(7050218)
LECYTYNA	0.75	0.751	0.001	(7050207)
CLEARAM CH20 SKROBIA	0.5	0.508	0.008	(7050202)
GLUTEN PSZENNY	1	1.003	0.003	(7050105)
SEMULINA PSENNA	1	1.002	0.002	(7050225)

Total:	116.89	117.232	0.342	
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Picture 8: Detail of Batch report

4 Sm@rt access

This page serves as a direct technology control and the only users who are allowed to use this tool are users with valid entries and high levels of access. The user has an option to use mode “only view“ or “control“. In the mode “control“, the user has at their disposal an equivalent of a PLC terminal.