Labo-Net SQL

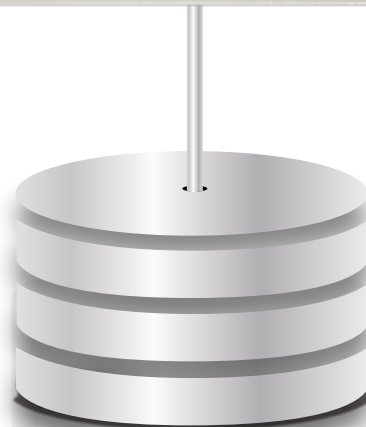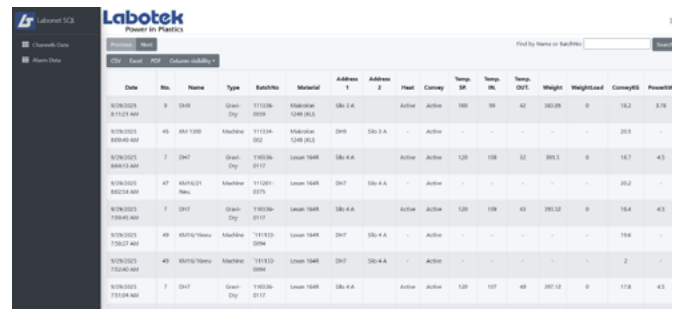## Datalogging for Drying System

Labotek

Labo-Net SQL

Safe & easy to use SQL database server directly in the PLC system, eliminating the usual tackle of Windows based software updates and virus protection software.

The Labotek SQL database is using standard web browser tool for access to relevant process data from the drying and conveying system, to be used for quality control and general logistics management. Database is designed for Labo-Net controls and is prepared for running with or without the Labotek Gravi-Dryer® system.

Example of the standard search feature, allows the user to review stored production data.

The SQL database enables:

- Logging of process data for further analyzing / quality assurance
- Download of material recipe to / from customer ERP system
- Logging of drying parameters
- Can be used both for documentation and maintenance. Can also be used as proof to determine if the error happened in the automatic system or operator error
- Logging of alarms
- Recipe control
- Energy consumption data from drying system

For further details, please refer to the Labo-Net & Gravi-Dryer® literature.

	ID	Date Time	ChannelNo	ChannelName	ChannelType	Material Type	HeatOnOff	ConveyOnOff	Setp...
1	3276272	2025-09-29 08:36:30.0	9	DH9	6	Makrolon 1248 (KU)	1	1	100
2	3276271	2025-09-29 08:35:11.4	45	KM 1300	2	Makrolon 1248 (KU)	0	1	100
3	3276270	2025-09-29 08:25:36.0	7	DH7	6	Lexan 164R	1	1	120
4	3276269	2025-09-29 08:24:31.0	47	KM16/21 Neu.	2	Lexan 164R	0	1	120
5	3276268	2025-09-29 08:24:15.5	6	DH6	6	PC	1	1	120
6	3276267	2025-09-29 08:22:03.6	43	KM1000 Neu.	2	PC	0	1	120
7	3276266	2025-09-29 08:21:48.1	7	DH7	6	Lexan 164R	1	1	120
8	3276265	2025-09-29 08:20:43.1	49	KM16/16neu	2	Lexan 164R	0	1	120
9	3276264	2025-09-29 08:11:21.3	9	DH9	6	Makrolon 1248 (KU)	1	1	100
10	3276263	2025-09-29 08:09:49.2	45	KM 1300	2	Makrolon 1248 (KU)	0	1	100
11	3276262	2025-09-29 08:04:13.3	7	DH7	6	Lexan 164R	1	1	120
12	3276261	2025-09-29 08:02:54.7	47	KM16/21 Neu.	2	Lexan 164R	0	1	120
13	3276260	2025-09-29 07:59:45.7	7	DH7	6	Lexan 164R	1	1	120
14	3276259	2025-09-29 07:58:27.3	49	KM16/16neu	2	Lexan 164R	0	1	120
15	3276258	2025-09-29 07:52:40.4	49	KM16/16neu	2	Lexan 164R	0	1	120

Example of database for Gravi-Dryer

Labotek | Labonet SQL

No.	Name	Type	BatchNo	Material	Address 1	Address 2	Heat	Convey	Temp. SP.	Temp. IN.	Temp. OUT.	Weight	WeightLoad	ConveyKG	PowerkW
9	DH9	Gravi-Dry	111336-0059	Makrolon 1248 (KU)	Silo 3 A		Active	Active	100	99	42	383,85	0	18,2	3,78
45	KM 1300	Machine	111334-002	Makrolon 1248 (KU)	DH9	Silo 3 A	-	Active	-	-	-	-	-	20,5	-
7	DH7	Gravi-Dry	110336-0117	Lexan 164R	Silo 4 A		Active	Active	120	108	32	391,5	0	18,7	4,5
47	KM16/21 Neu.	Machine	111201-0375	Lexan 164R	DH7	Silo 4 A	-	Active	-	-	-	-	-	20,2	-
7	DH7	Gravi-Dry	110336-0117	Lexan 164R	Silo 4 A		Active	Active	120	109	43	393,52	0	18,4	4,5
49	KM16/16neu	Machine	`111133-0094	Lexan 164R	DH7	Silo 4 A	-	Active	-	-	-	-	-	19,6	-
49	KM16/16neu	Machine	`111133-0094	Lexan 164R	DH7	Silo 4 A	-	Active	-	-	-	-	-	2	-
7	DH7	Gravi-Dry	110336-0117	Lexan 164R	Silo 4 A		Active	Active	120	107	40	397,12	0	17,8	4,5
9	DH9	Gravi-Dry	111336-0059	Makrolon 1248 (KU)	Silo 3 A		Active	Active	100	80	36	385,65	0	11,2	2,25
49	KM16/16neu	Machine	`111133-0094	Lexan 164R	DH7	Silo 4 A	-	Active	-	-	-	-	-	4,3	-
9	DH9	Gravi-Dry	111336-0059	Makrolon 1248 (KU)	Silo 3 A		Active	Active	100	79	60	374,4	0	18,2	2,2
6	DH6	Gravi-Dry		PC	Silo 1A		Active	Active	120	90	36	395,33	0	18	1,71
45	KM 1300	Machine	111334-002	Makrolon 1248 (KU)	DH9	Silo 3 A	-	Active	-	-	-	-	-	20,5	-
7	DH7	Gravi-Dry	110336-0117	Lexan 164R	Silo 4 A		Active	Active	120	112	46	383,17	0	18,7	4,5
6	DH6	Gravi-Dry		PC	Silo 1A		Active	Active	120	76	66	377,55	0	18	0,18
43	KM1000 Neu.	Machine	112304-0056	PC	DH6	Silo 1A	-	Active	-	-	-	-	-	21,4	-
7	DH7	Gravi-Dry	110336-0117	Lexan 164R	Silo 4 A		Active	Active	120	109	40	385,42	0	18,4	3,29
49	KM16/16neu	Machine	`111133-0094	Lexan 164R	DH7	Silo 4 A	-	Active	-	-	-	-	-	19,4	-
7	DH7	Gravi-Dry	110336-0117	Lexan 164R	Silo 4 A		Active	Active	120	107	52	386,1	0	18	3,69
47	KM16/21 Neu.	Machine	111201-0375	Lexan 164R	DH7	Silo 4 A	-	Active	-	-	-	-	-	20,2	-
9	DH9	Gravi-Dry	111336-0059	Makrolon 1248 (KU)	Silo 3 A		Active	Active	100	80	66	376,65	0	18,2	1,98
45	KM 1300	Machine	111334-002	Makrolon 1248 (KU)	DH9	Silo 3 A	-	Active	-	-	-	-	-	20,2	-
7	DH7	Gravi-Dry	110336-0117	Lexan 164R	Silo 4 A		Active	Active	120	107	32	389,48	0	18,5	4,5
49	KM16/16neu	Machine	`111133-0094	Lexan 164R	DH7	Silo 4 A	-	Active	-	-	-	-	-	19,6	-
7	DH7	Gravi-Dry	110336-0117	Lexan 164R	Silo 4 A		Active	Active	120	106	46	389,7	0	18,4	4,5
47	KM16/21 Neu.	Machine	111201-0375	Lexan 164R	DH7	Silo 4 A	-	Active	-	-	-	-	-	20	-

Sheet1

Example of data logging exported into Microsoft Excel.