

Single Station Architecture

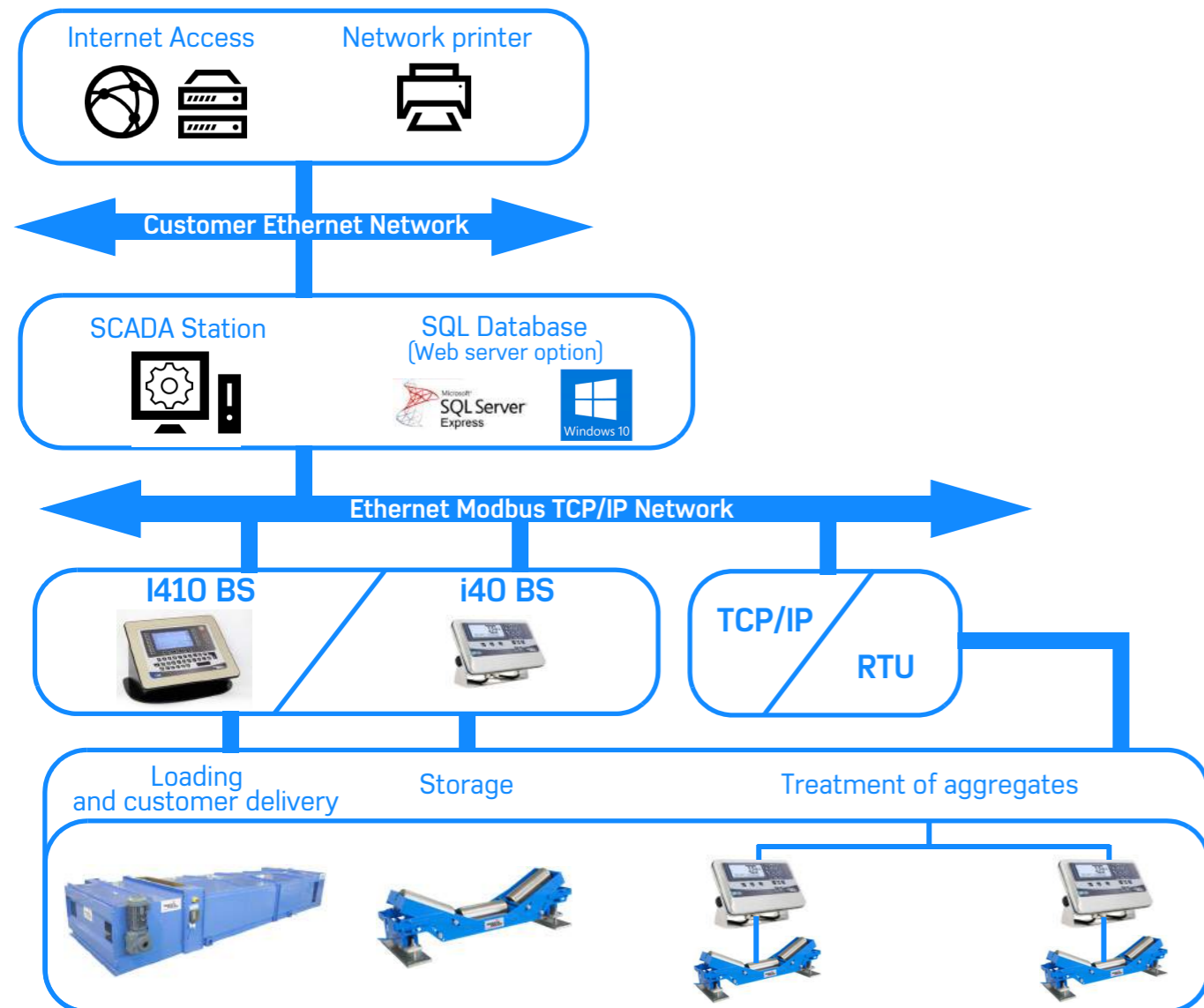
The SCADA station manages a database which centralizes all the information on operations both complete and in progress

It allows the use of a shared printer on the company network and connects to the Internet via a company network server

An optional Web server can be implemented to access data remotely on any terminal connected to the Internet

Traceability

The possible alarms and all the events such as operator changes or scale resets are signaled to the user and archived in a log.



Data Management

Manual management by batch allows the user to see a production total according to the cycle start and its end. This data reading and the analysis can be done when the day is over.

Automatic management of workstations allows for a sum of the weigh measurements according to the hours of operation and the weighing areas taken into account for each station.

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DATABULK BS SCADA Software for Continuous Weighing

**PRECIA
MOLEN™**
WORLDWIDE WEIGHING



Control and reporting of all continuous weighing points



General Presentation

The SCADA software DATABULK BS is designed for the centralization of data and the remote control of all a site's continuous weighing scales equipped with PRECIA MOLEN weighing electronics from the I410 BS and i40 BS ranges.

All the continuous flow measurement operations, and / or loading with weight set point can be monitored in real time.

The number of scales connected to the system is limited to 16*.

The main functions can :

- ▼ display information from each scale,
- ▼ generate production curves,
- ▼ print reports,
- ▼ save batch operation data.

The use of each menu is limited by the Operator or Administrator access levels.

Minimum Configuration

The minimum configuration of the SCADA station on which the DATA BULK BS application is to be installed is as follows:

- ▼ Operating system..... Windows10 Pro
- ▼ CPU Dual Core
- ▼ RAM 8 Go
- ▼ Available HDD memory..... 50go
- ▼ Monitor:
- ▼ Size 22"
- ▼ Resolution 1 920 x 1 080
- ▼ Ethernet Ports:
 - 1 port for the scale automation network
 - 1 port for the company network and Internet access**

* As standard. For a larger number of scales, please contact us.

** Access recommended for commissioning and remote maintenance via the TeamViewer software.

Your Specialist

Non contractual illustrations. Precia-Molen reserves the right to modify at any time the characteristics of the equipment described in this brochure.

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Main Functions

All the available functions help you monitor your production in real time, interact with your installation to improve its performance, manage your stock, and easily control the weighing accuracy of each scale. It is also possible to monitor the status of scales, manage events and alarms in different menu pages.

The continuous weighing operations are all saved in a local SQL database and the files can be archived and exported.

View of data for a connected scale

0/2 Granulometry	
A. FLOW	82.0 t/h
SPEED	1.00 m/s
THRESHOLD MIN.	
PARTIAL	5.95 t
GLOBAL	1522 t

1. Scale name
2. Instant or average flow rate
3. Conveyor belt speed
4. Scale status
5. Partial total
6. Overall total

Site logo

Scale control



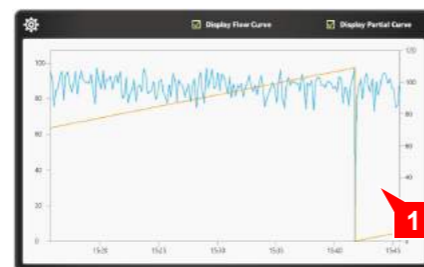
1. Belt zero start
2. Partial total reset

Detail of operations in progress

BATCH DETAILS	
BATCH START	06/09/2018 13:41:17
BATCH FLOW	0.001 t/h
BATCH TOTAL	5.06 t
LOAD TIME	2:10 02:04:05
EMPTY TIME	00 00:00:00
STOP TIME	00 00:00:00
OPERATIVE FLOW	0.001 t/h
PEAK FLOW	97.2 t/h
OVER FLOW TIME	00 00:00:00
SUB-FLOW TIME	2:18 00:00:00

1. Date and time of batch start
2. Average flow rate
3. Batch total
4. Loaded belt operation time
5. Empty belt operation time
6. Downtime
7. Instant flow rate
8. Max recorded flow rate
9. Time over set flow rate
10. Time under set flow rate

Graphics



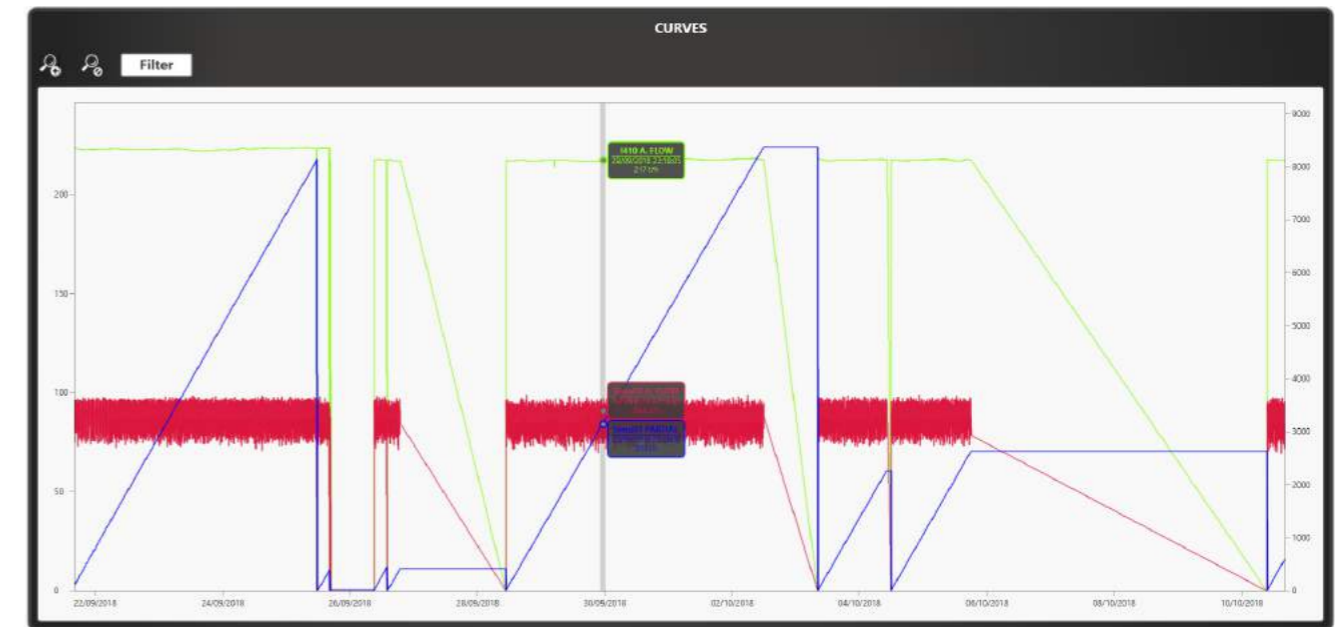
1. Production flow rate curve

View of Data for Four Connected Scales

Size 0/2		Size 4/10		Primary		Secondary	
A. FLOW	87.0 t/h	A. FLOW	0.000 t/h	A. FLOW	0.000 t/h	A. FLOW	0.000 t/h
SPEED	1.00 m/s	LOAD	0.000 t	LOAD	0 t	SPEED	0.000 m/s
THRESHOLD MIN.		COMMUNICATION FAULT		SPEED	0.000 m/s	PARTIAL	
PARTIAL	0.709 t	PARTIAL	0.000 t	PARTIAL	0 t	PARTIAL	0.000 t
GLOBAL	6842 t	GLOBAL	0.000 t	GLOBAL	0 t	GLOBAL	0.000 t

The view layouts are entirely customizable

Multi-Scale Graphics



Events Log

Event Name	Event Date	Event Time	Event Type	Event Description
Scale 1	06/09/2018	13:41:17	Batch Start	Batch start for Scale 1
Scale 2	06/09/2018	13:41:17	Batch Start	Batch start for Scale 2
Scale 3	06/09/2018	13:41:17	Batch Start	Batch start for Scale 3
Scale 4	06/09/2018	13:41:17	Batch Start	Batch start for Scale 4

Alarms Log

Alarm Name	Alarm Date	Alarm Time	Alarm Type	Alarm Description
Scale 1	06/09/2018	13:41:17	Communication Fault	Communication fault for Scale 1
Scale 2	06/09/2018	13:41:17	Communication Fault	Communication fault for Scale 2
Scale 3	06/09/2018	13:41:17	Communication Fault	Communication fault for Scale 3
Scale 4	06/09/2018	13:41:17	Communication Fault	Communication fault for Scale 4