

Inventory monitoring

with evaluation unit and filling level indication worldwide

VB

Appliance information

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Visualisierung



Use

The **WebServer VB20** is intended for the visual, graphic, and clear presentation of up to eight filling levels of silos or tanks at the PC, Laptop, Tablet or Smartphone.

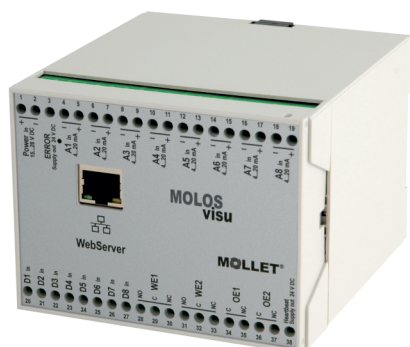
The **WebServer VB20** is appropriate for materials requirements planners at the **warehouse operator** of silo or tank warehouses and although at the **supplier** of concentrated feed, flour, salt, sugar, lime, cement, wooden pellets and so on.

Connected to a local network or to the internet the device enables the inspection of the actual filling levels worldwide.

Independent of the location the person entitled is able to inspect the filling levels and to take appropriate measures.

This simplifies the organization of shipment and avoids vacancies.

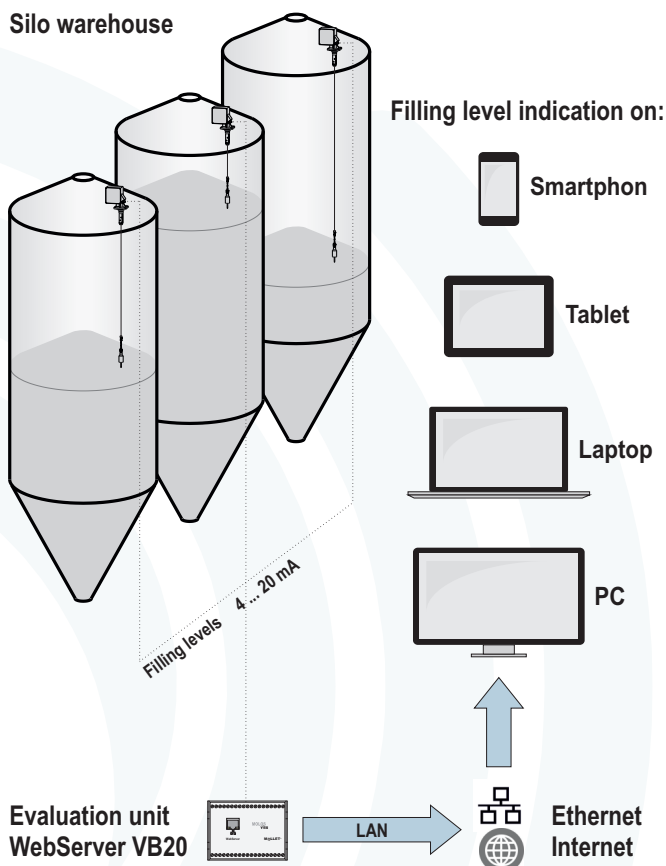
Illustration



Device configuration

- Clear user interface
- Continuous level indication for up to 8 silos
- Status indication for 8 digital inputs
- 5 free programmable outputs
- Network connection via Ethernet 10/100 Mbit/s
- Easy parameterization of the in- and outputs
- Heartbeat function for self-diagnosis
- Simple installation on a top hat rail in a control cabinet
- Menu-driven set up

Application diagram



Function

MOLOSvisu VB20 shows on the free accessible display surface the filling levels of the connected silos in a graphic representation including description of the content, the measured value in mA and the content in percentage. Furthermore, all digital in- and outputs with description and status are displayed.

Eight analog 4 ... 20 mA inputs of filling level measurement devices and eight digital inputs of e.g. level limit switches, thermostat or hygrostat are available at the **WebServer VB20**.

The analog inputs of measured values are displayed as bar graph and supplemented by data of the filling level in % and of measured value in mA.

The digital inputs of measurement results are displayed as status.

Due to the permanent evaluation of the incoming signals the presentation is constantly updated.

In the local network the graphic representation can be reached via Ethernet after entering the IP address of the WebServer into the browser.

With the WebServer the graphic and measurement data can be displayed on a standard browser with any kind of terminal device.

External access via internet happens after corresponding configuration of the router.

Alarms, demand reports, filling permissions, empty announcements etc. can be triggered by the five configurable relay outputs.

Entry mask

MOLOSvisu VB20

Inventory monitoring

Insert parameter

Analog inputs				Switch digital output					
Input	Measured value mA	Silo/tank	Content	Threshold value signals at	WE1	WE2	OE1	OE2	ERROR
A1	0.1	Silo 1	Wheat	15 %	☒	☒	☐	☐	☐
A2	10.1	Silo 2	Bar	15 %	☒	☒	☐	☐	☐
A3	10.1	Silo 3	Spelt	15 %	☒	☒	☐	☐	☐
A4	10.1	Silo 4	Bar	15 %	☒	☒	☐	☐	☐
A5	10.1	Silo 5	Barley	15 %	☒	☒	☐	☐	☐
A6	10.1	Silo 6	Barley	15 %	☒	☒	☐	☐	☐
A7	10.1	Silo 7	Barley	15 %	☒	☒	☐	☐	☐
A8	10.1	Silo 8	Bar	15 %	☒	☒	☐	☐	☐

Radio components:

Location

Silo/tank

Content

Analog input A1

Analog input A2

Digital input D1

Digital input D2

Digital input D3

Digital inputs

Input	Status	Silo/tank	Content/function	Delay (1 ... 60 min.)	WE1	WE2	OE1	OE2	ERROR
D1	1	Silo 1 empty	Alarm	1 min.	☐	☐	☐	☐	☐
D2	1	Silo 1 demand	Alarm	1 min.	☐	☐	☐	☐	☐
D3	0	Silo 1 danger	Alarm	1 min.	☐	☐	☐	☐	☒
D4	1	Silo 1 danger	Alarm	2 min.	☐	☐	☐	☐	☒
D5	1	Silo 1 danger	Alarm	3 min.	☐	☐	☐	☐	☒
D6	0	Silo 1 danger	Alarm	3 min.	☐	☐	☐	☐	☒
D7	0	Silo 1 empty	Warning all	3 min.	☐	☐	☒	☐	☐
D8	1	Silo 1 demand	Warning all	3 min.	☐	☐	☒	☐	☐

Digital outputs

Output	Status	Input signal for
OE1	0	High alarm
OE2	1	Low alarm
OE3	0	Demand
OE4	1	Alarm
OE5	1	Error

Filling levels

Filling levels radio set

IP settings

Insert parameter

Register radio set

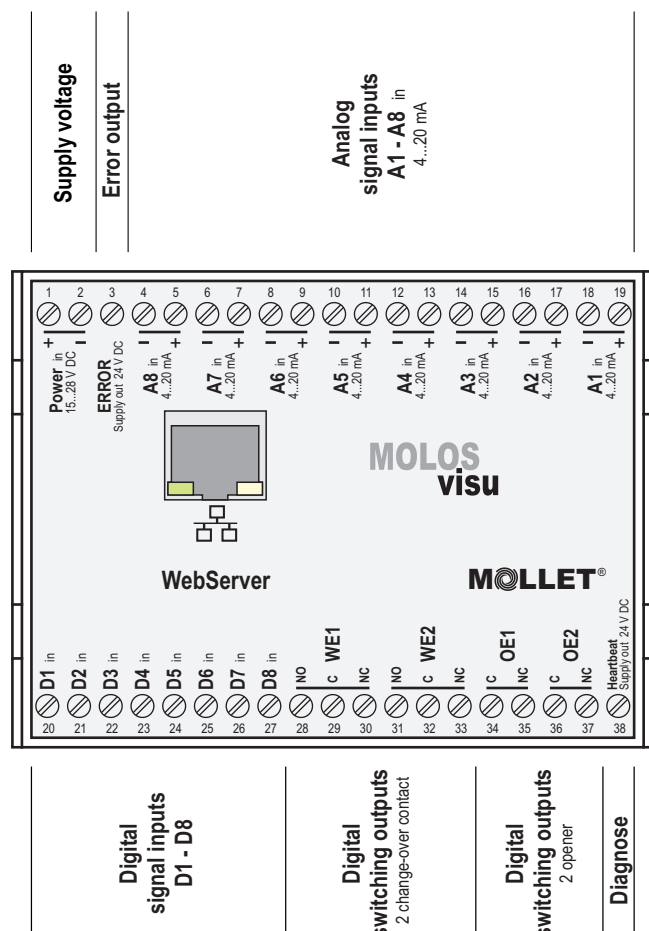
English

Reset all

Import data

Logout

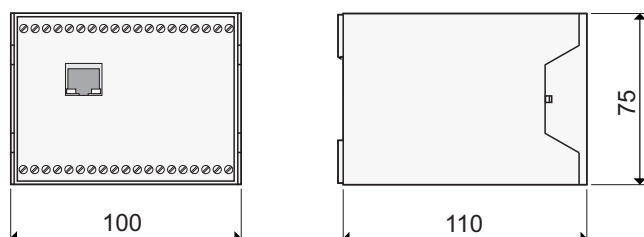
Electrical connection



Characteristics

- All inputs of silo/tank and their content, all digital outputs and configurations of the webserver could be parametrized and displayed.
- The measured values of the analog inputs are displayed in mA and percentage. The measurement results of the digital inputs are indicated as status.

Dimensions



Electrical data

Supply voltage	Supply	15 ... 28 V DC
Power consumption		≤ 22 W
Connection clamps		maximum 2.5 mm ² , screwable
Analog signal inputs	8	4 ... 20 mA
Current output	ERROR	24 V DC, activ
	Capacity	≤ 400 mA
Data transmission		maximum 100 Mbit/s
Reaction time		approx. 1 s
Option EA		
Digital signal inputs	8	24 V DC, passive
	Current sinking	≤ 10 mA
Digital switching outputs	2	Change-over contacts
	2	Opener
Switching capacity		≤ 0,5 A/250 V AC
Current output	Heartbeat	24 V DC, activ
	Capacity	≤ 400 mA

Technical data

Display		Graphical user interface with network-compatible terminal device
Display range		0% ... 100% and 4 ... 20 mA
Digits		1
Mesuring range		4 ... 20 mA
Ambient temperature	Ta	0 °C ... 50 °C
Moisture		20% ... 90% (not condensing)
Dimensions		B100 x H75 x T110 mm
Type of protection	IP	IP 40
Material housing		ABS
Weight		385 g
Maintenance		none

Installation information

The **WebServer VB20** has to be installed on a top hat rail DIN EN 60715 TH35 in a control cabinet.