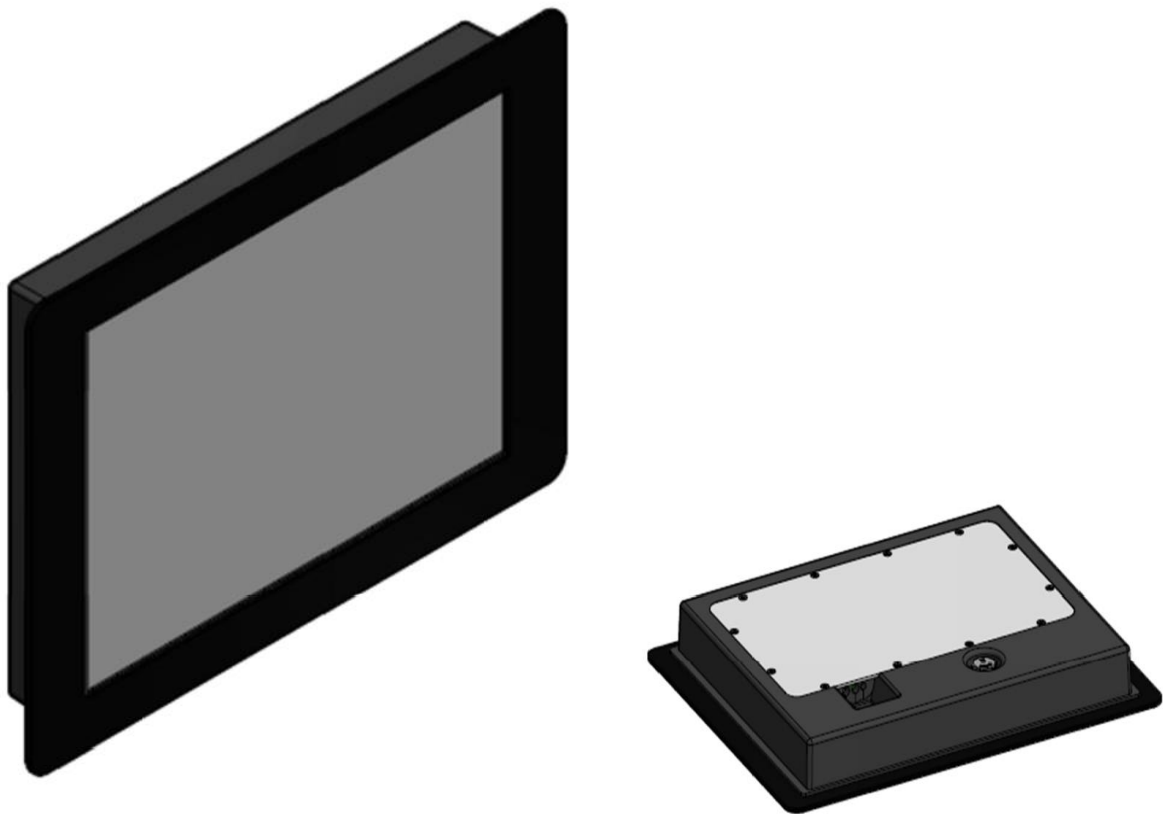


# VTM-12-01

Touch sensitive 12,1“ flush mount monitor as a HMI-interface for use in the operation control of food filling machines and attachments with a special operation concept, developed for precision-fit integration into a customized installation situation.



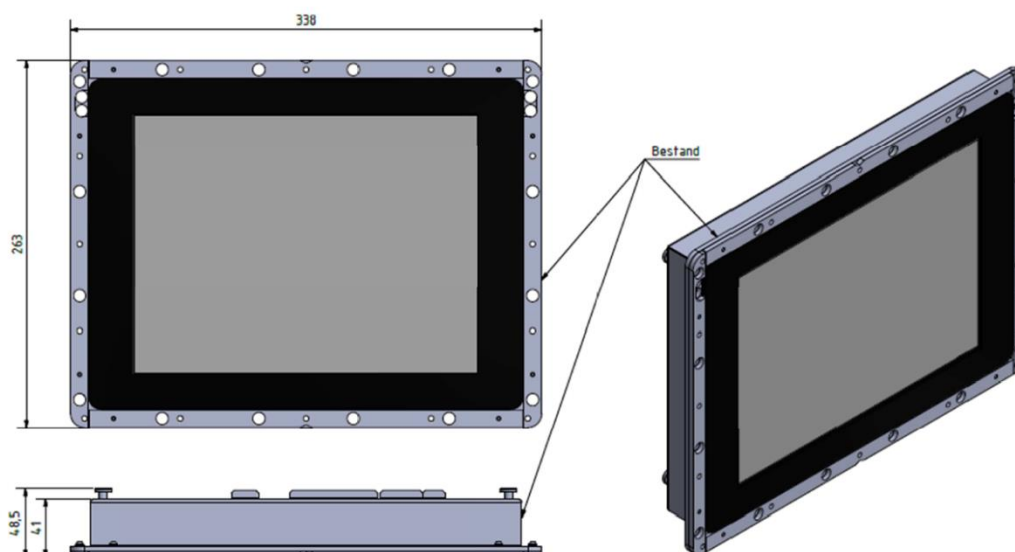
| VTM-12-01 Features     |                                                                                                                                                   |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Application Areas      | HMI-Interface in the customers' food-filling machines and attachments                                                                             |
| Display                | 12,1" TFT with True-Color-Resolution and LED-backlight                                                                                            |
| Front                  | Full glass front made of PMMA material, optically bonded with the LC-display                                                                      |
| Casing                 | Plastic shell casing (ABS) for liquid- and vapor-tight integration into the customer's stainless-steel mounting and sealing frame.                |
| User Interaction (HMI) | Projective-capacitive touch screen with machine-side USB interface                                                                                |
| Safety                 | Robust full glass front pane made of PMMA                                                                                                         |
| Reliability            | Liquid- and vapor-tight plastic casing with metal back. Built-in pressure compensation membrane against temperature fluctuations (indoor/outdoor) |

# VTM-12-01

Touch sensitive 12,1" flush mount monitor as a HMI-interface for use in the operation control of food filling machines and attachments with a special operation concept, developed for precision-fit integration into a customized installation situation.

| VTM-12-01 Spezifikationen                                              |                                                                                                                     |
|------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| Display Resolution                                                     | 1024 x 768 Dots (RGB), Aspect Ratio 4:3                                                                             |
| Color depth                                                            | 16 million colours (true color)                                                                                     |
| Brightness                                                             | typ. 600 cd/m <sup>2</sup> (Display nativ) (Helligkeit wird werksseitig fest eingestellt)                           |
| Hinterleuchtung                                                        | Energy saving LED edge backlight with a long lifetime (50.000h@+25°C)                                               |
| Contrast                                                               | typ. 1000:1                                                                                                         |
| Viewing Angle (horizontal/vertical) / display technology               | 178° / 178° (typ. 89-89/89-89); CR>10 / IPS-technology                                                              |
| Pixel error class according to EN ISO 9241-307                         | II (other classes on request)                                                                                       |
| Image Sticking                                                         | In order to avoid/minimize residual images, we recommend the use of time variable display contents and backgrounds. |
| Touch Panel                                                            | Projective capacitive (PCT) touch screen                                                                            |
| Touch-Interface                                                        | USB1.1/2.0                                                                                                          |
| Video-Interface                                                        | HDMI                                                                                                                |
| Supply Voltage                                                         | 24 VDC (+/- 20%)                                                                                                    |
| Power Consumption (max.)                                               | approx. 18W                                                                                                         |
| Connections                                                            | All connections are made via sealed connection lines. External free length of connection lines, min. 1,6 m.         |
| Operation Temperature Range                                            | + 0,5° ~ + 55°C (at free convection inside the surrounding machine housing)                                         |
| IP-Protection Class                                                    | IP68 at the front, IP64 at the back (monitor only, without mounting frame)                                          |
| Dimensions VTM-12-1 with front glass                                   | approx. 237 (H) x 312 (W) x 37 (D) mm                                                                               |
| Dimensions of installation opening (in the customer's mounting frame). | approx. 218 (H) x 283 (W)                                                                                           |
| Weight                                                                 | Basic unit approx. 1,8 kg                                                                                           |

## Integration of the VTM-12-01 into the customer's V2A-Frame



# VTM-12-01

Touch sensitive 12,1" flush mount monitor as a HMI-interface for use in the operation control of food filling machines and attachments with a special operation concept, developed for precision-fit integration into a customized installation situation.

Views of the Monitor Chassis (before installation into the the customer's V2A-Frame)



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