

- **Industrial approved components**
- **Ideal for hard environments / Solid & robust**
- **IP65 front side**
- **Long time availability**
- **Optional: Front side with USB access**
- **Mounting: at electrical cabinet or direct at display housing**

Technical data

TFT Module

| | |
|-----------------------------------|---------------------------------|
| Panel size | 12,1" |
| Display type / Interface | a-Si TFT active matrix / TTL |
| Resolution / Display colours..... | Standard 800 x 600 / 262.144 |
| Pixel pitch | 0,3075(H) x 0,3075(V) |
| Surface treatment | Anti glare & hard coating 3H |
| Viewing angle | vertical 110° / horizontal 140° |
| Brightness..... | 370 cd/m ² |
| Backlight unit | 2 CCFTs / Lifetime typ. 50.000h |

Optional 8-wire TouchScreen

| | |
|------------------------|--|
| Haze and clarity | Hard coat HCG12 – Haze 5%, clarity 77% |
| Point activation | min. 1.000.000 activations at a single point |
| Gouge Hardness..... | ≥4H |

Electrical data

| | |
|--------------------|--------------|
| Power supply | 24V DC ± 20% |
|--------------------|--------------|

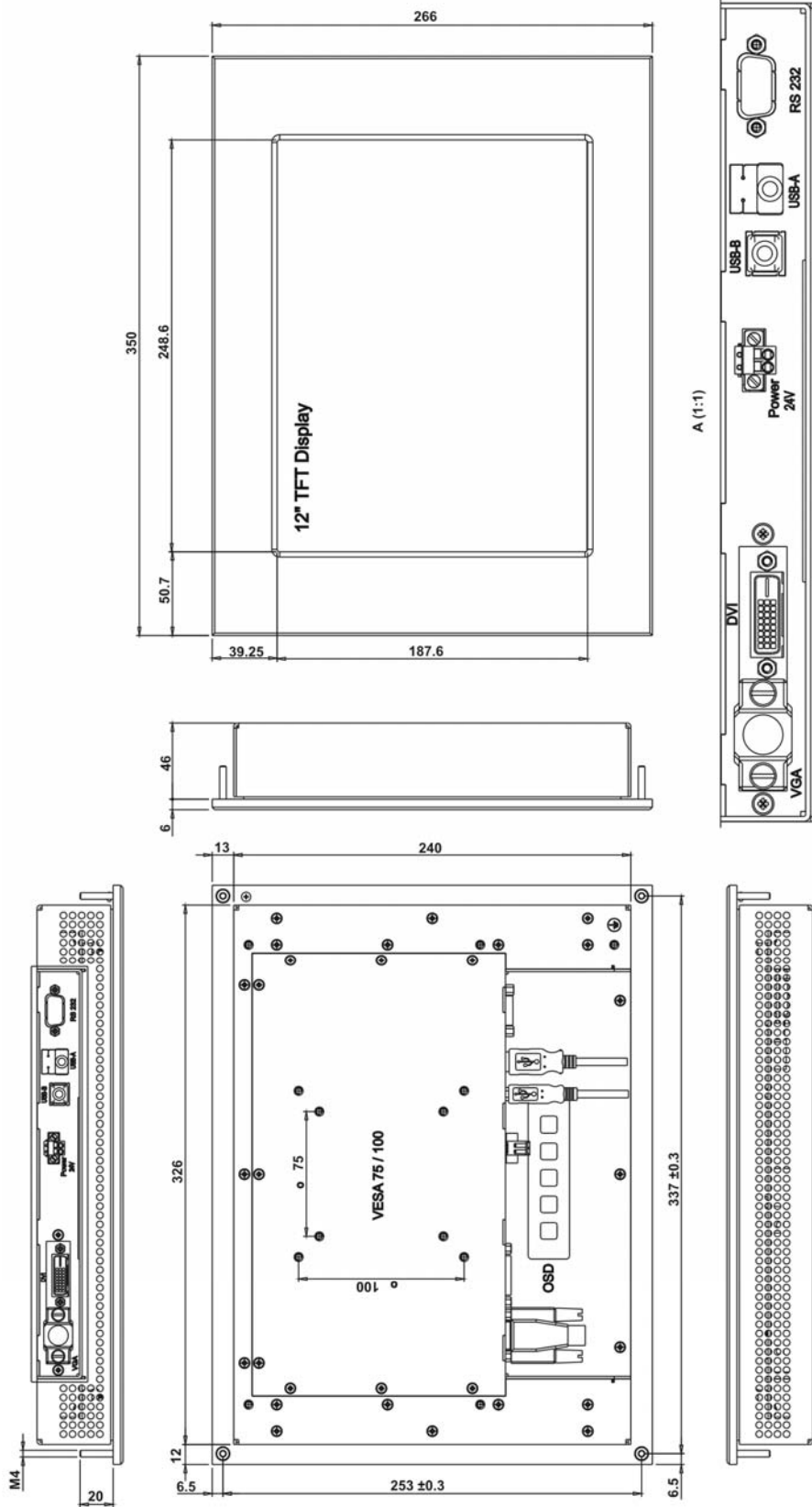
Environmental conditions

| | |
|---------------------------|---|
| EMI | EN 50081-2; EN 55011; EN 50082-2; EN 61000-4-2; |
| | EN 61000-4-3; EN 61000-4-4; EN 61000-4-5 |
| Protecting class | front side IP65, back side IP20 |
| Operating temperature | |
| non-permanent..... | 0...+50°C / max. 240h under sufficient cooling |
| permanent..... | 0...+45°C |
| Storage temperature | -20... +60°C |
| Humidity (rel) | 90% (non condensing) |
| Weight | 2,5kg |

Front prints Customized prints on request

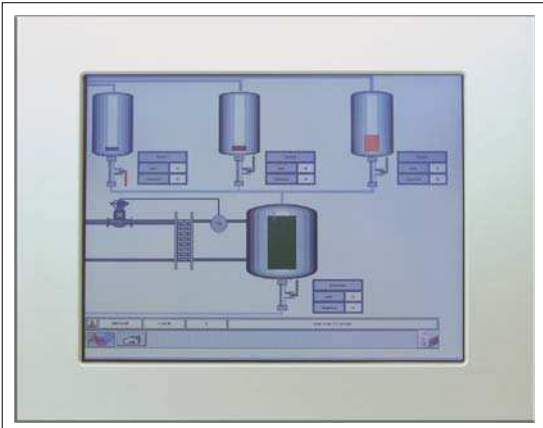
VDSP 12

Drawing



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Technical data

TFT Module

Panel size 15"
 Display type / Interface TFT LCD colour active matrix / LVDS
 Resolution / Display colours..... 1024x768 / 16,2Mio
 Pixel pitch 0,297(H) x 0,297(V)
 Surface treatment Haze 25, Antiglare & Hard- coating (3H)
 Viewing angle vertical 130° / horizontal 160°
 Brightness..... 400 cd/m²
 Backlight unit 4 CCFTs / Lifetime typ. 35.000h

Optional 8-wire TouchScreen

Haze and clarity Hard coat HCG12 – Haze 5%, clarity 77%
 Point activation min. 1.000.000 activations at a single point
 Gouge Hardness..... ≥4H

Electrical data

Power supply 24V DC ± 20%

Environmental conditions

EMI EN 50081-2; EN 55011; EN 50082-2; EN 61000-4-2;
 EN 61000-4-3; EN 61000-4-4; EN 61000-4-5
 Protecting class front side IP65, back side IP20
 Operating temperature
 non-permanent 0... +50°C / max. 240h under sufficient cooling
 permanent..... 0... +45°C
 Storage temperature..... -20... +60°C
 Humidity (rel) 90% (non condensing)
 Weight 4,3kg

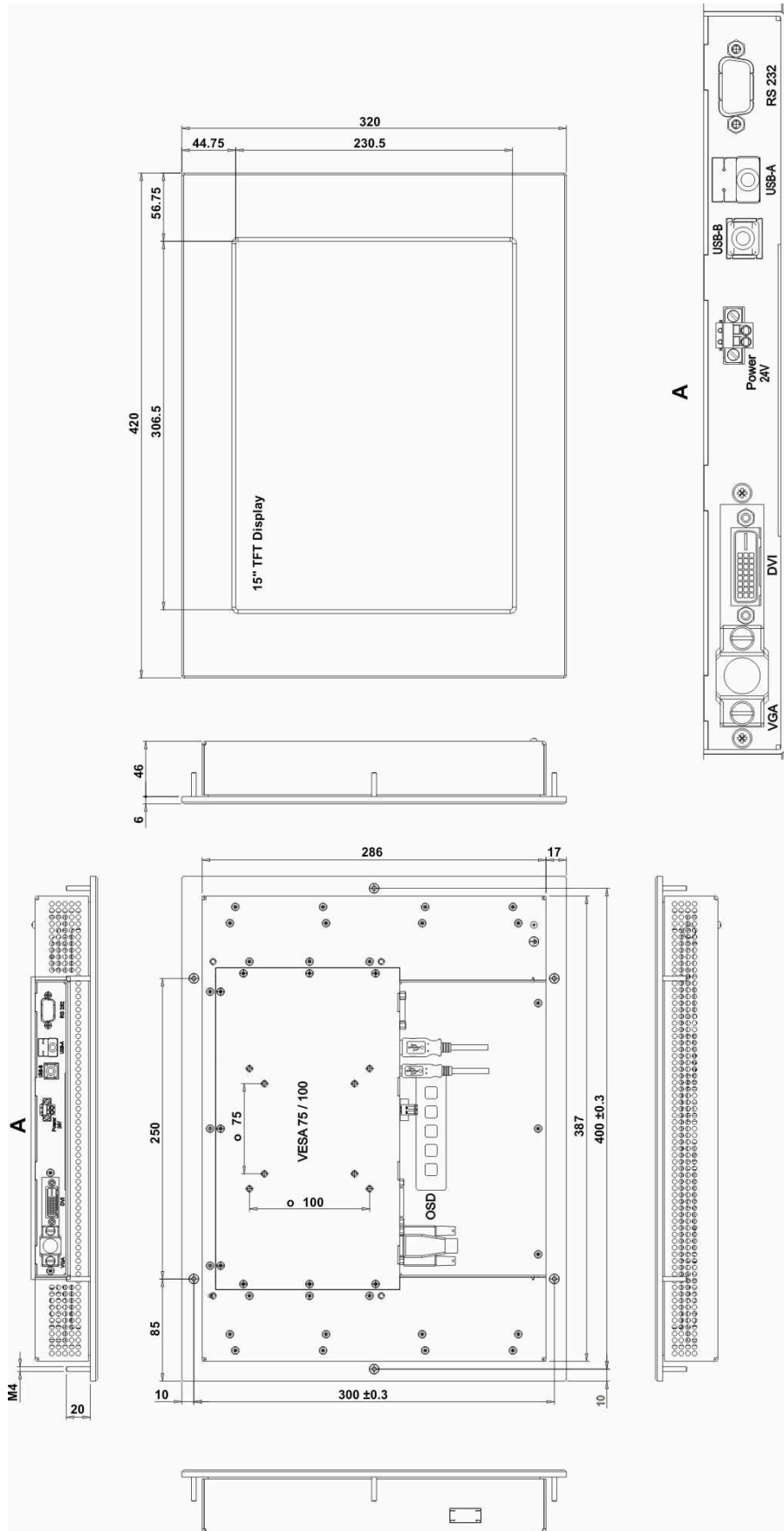
Front prints Customized prints on request

History

| Rev | Description | Date |
|-----|-----------------------------|------------|
| 01 | Touch screen system changed | 14.11.2006 |

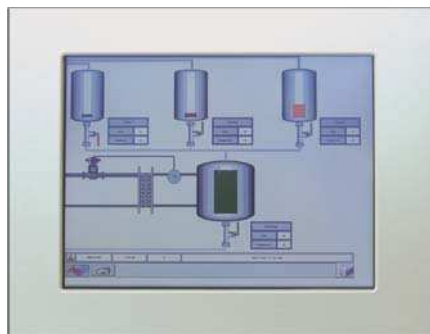
VDSP15

Drawing



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VDSP 19



- **Industrial approved components**
- **Ideal for hard environments / solid & robust**
- **IP65 front side**
- **Long time availability**
- **Mounting: at a switch cabinet or directly at a display housing**

Technical data

TFT Module

| | |
|----------------------------------|--|
| Panel size | 482.6 mm (19") diagonal |
| Display type | TFT LCD color active matrix |
| Resolution / display colors..... | 1280x1024 / 16.7 million |
| Pixel pitch | 0.294 (H) x 0.294 (V) |
| Surface treatment..... | hard-coating (3H), anti-glare treatment of the front polarizer |
| Viewing angle | vertical 178° / horizontal 178° |
| Brightness..... | 270 cd/m ² |
| Backlight unit | 4 CCFL / lifetime typ. 40.000 h |

Optional 8-wire touch screen

| | |
|------------------------|--|
| Haze and clarity..... | hard coat HCG12 – haze 5%, clarity 77% |
| Point activation | min. 1.000.000 activations at a single point |
| Gouge hardness | ≥ 4 H |

Electrical data

| | |
|-------------------------|---------------|
| Power supply | 24 VDC ± 20% |
| Optional | 100 – 240 VAC |
| Power consumption | < 1.7 A |

Environmental conditions

| | |
|------------------------|--|
| EMI | DIN EN 61000-6-2: 2006; generic standards – immunity for industrial environments |
| | DIN EN 61000-6-4: 2007; generic standards – immunity for industrial environments |
| Protection class | front side IP 65, back side IP20 |

Operating temperature

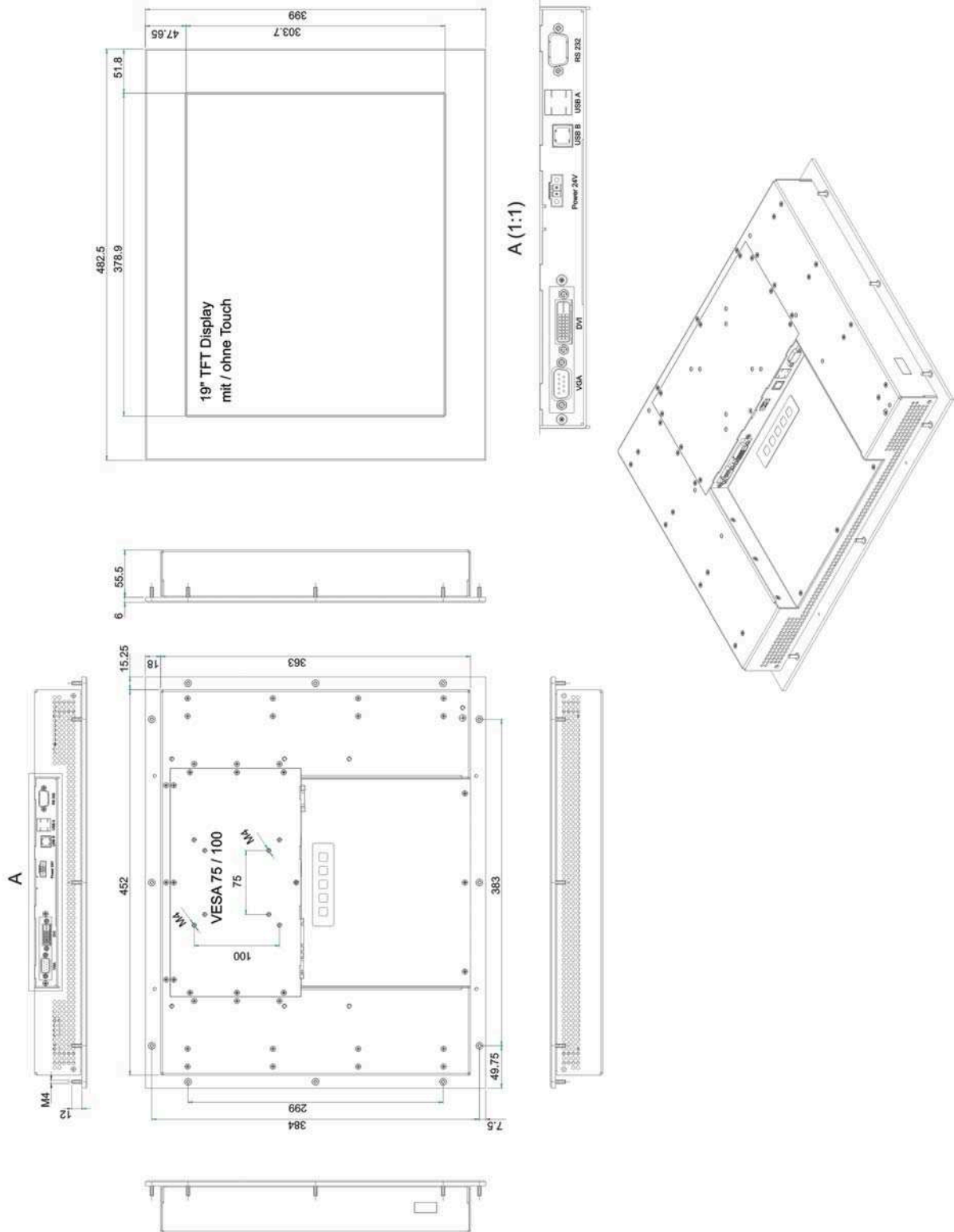
| | |
|--------------------------------|--|
| Non-permanent [°C]..... | 0 ... +50 / max. 240 h under sufficient cooling |
| Permanent [°C]..... | 0 ... +45 |
| Optional [°C]..... | 0 ... +40 with external power supply 100-240 VAC |
| Storage temperature [°C] | -20 ... +60 |
| Humidity (rel. %)..... | 90 (non condensing) |

Front prints and design on request

VDSP 19

Drawing

Changes reserved



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