Display for mobility applications

# TFT 32"

The TFT 32" Display offers a versatile range of applications . It is available in both portrait and landscape format. Various mounting options and decorative trims are also available as design elements. Thanks to a powerful control unit, the TFT 32" Display can play high-resolution videos in addition to arrival and departure information.

## MAXIMUM FLEXIBILITY

The TFT 32" Display offers high flexibility, maximum safety and energy efficiency. All devices are equipped with different sensors for control the brightness, vandalism detection to avoid and protect against damage and destruction. Optional the display has a Stand-by-Function that automatically switches it to energy saving mode when inactive.

The TFT 32" Display is developed for indoor and outdoor use.

## HIGHLIGHTS

» single-sided / double-sided for indoor and outdoor

» modular structure – easy maintenance and good spare part availability

» integrated sensor technology for monitoring temperature, humidity, brightness and error detection

» integrated, high-performance heat exchanger

» anti-reflective laminated safety glass with highly effective IR and UV blocking filter

» performance control unit for high resolution applications or videos

» CE Certificate, TSI conformity

# TECHNICAL DATA

## GENERAL DESCRIPTION

| | |
|---|---|
| Exact designation | TFT 32" Display single-sided – Landscape / Portrait |
| | TFT 32" Display double-sided – Landscape / Portrait |
| Area of application | outdoor and indoor, also with direct sunlight |

## TFT-PANEL

| | | |
|---|---|---|
| Display area | Screen size (W x H) [mm]: | 701 x 395 |
| | Screen diagonal: | 32" |
| | Aspect ratio: | 16:9 [Landscape] / 9:16 [Portrait] |
| | Resolution [px]: | 1.920 x 1.080 Full-HD |
| Display colour | up to 16.7 million possible colours | |
| Viewing angle | typical 178° in horizontal and vertical direction | |
| Initial brightness value [cd/m²] | max. 2.500 | |
| Initial contrast | typical 4.000:1 | |
| Ambient light | readable even in direct sunlight | |
| Backlighting | LED backlighting, brightness control according to ambient light | |

## HOUSING

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|---|---|
| Front glass | anti-reflective laminated safety glass with thickness of ca. 8.8 mm, with highly effective IR and UV blocking filter |
| Housing material | galvanized steel / Aluminium |
| Surface | Base colour: Deep black RAL9011 |
| Fastening | TFT 32" Display single-sided & double-sided: 4 x M12 threaded bolds |

## DIMENSIONS / WEIGHT

|  | Dimension (W x H x D) [mm] | Weight (without trim strip) [kg] |
|---|---|---|
| TFT 32" Display single-sided Portrait | 552 x 858 x 302 | ca. 60 |
| TFT 32" Display single-sided Landscape | 858 x 552 x 302 | ca. 60 |
| TFT 32" Display double-sided Portrait | 552 x 858 x 302 | ca. 70 |
| TFT 32" Display double-sided Landscape | 858 x 552 x 302 | ca. 70 |

## POWER SUPPLY

| Power supply | 230 V / 50 Hz, fused by FI/LS switch with 30 mA / 6 A, tripping characteristic C | |
|---|---|---|
|  | TFT 32" Display single-sided | P = 340 W |
|  | TFT 32" Display double-sided | P = 640 W |
| Typical Power consumption Operation | TFT 32" Display single-sided | 60 W / max. 140 W plus 200 W heating |
|  | TFT 32" Display double-sided | 110 W / max. 240 W plus 400 W heating |

## CLIMATIC & ENVIRONMENTAL CONDITIONS

| Temperature range operation | -20° C to +40° C |
|---|---|
| Temperature range storage | -20° C to +50° C |
| Air conditioning | powerful heat exchanger for cooling the interior |
|  | 200 W heating foil for heating the interior |
| Service life of the entire device | ca. 10 years, reduction of display luminosity after 50.000 h to 50 % (at T = 25 ± 2° C) |
| Protection class / electrical protection class | Monitor Part IP65 / Protection Class 2 |
| Approvals | CE (EMC and electrical safety) |

## CONTROL UNIT & INTERFACES

| | |
|---|---|
| Control Unit | Kontron D3723-R mITX with AMD Ryzen Embedded R2314, max. 4 x 3,5 GHz, integrated on-Board Vega GPU |
| Standard Interfaces | DisplayPort, USB, Gigabit Ethernet / LAN / RJ45, etc. |

## INPUT / OUTPUT COMPONENTS

| | |
|---|---|
| Acoustic output | waterproof loudspeaker (IP65) |
| | Output power max. 18 W |
| | Volume configurable |

## SENSORS & MONITORING

| | |
|---|---|
| Sensors / monitoring functions | temperature & humidity, glass breakage, ambient light, backlight error and fan speed |
| Funkwerk Sensor Modul | Funkwerk Sensor Modul for Stand By Controller of the displays, control of display brightness and train phase detection |
| Display control function and network access | with Funkwerk control unit displays can be controlled by integrated browser |
| | Service WEB interface, accessible via web browser, SSH, SCP, VNC, SNMP v1 / v2 / v3 |
| Brightness control & Fallback display | Brightness control according to ambient light |
| | Display of a definable fallback page in case of interruption of the data connection |