

Display and E-Kiosk

**TFT 55"**



The TFT 55" offers versatile applications in form of Display and E-Kiosk. They are available in both portrait and landscape format. Within the Funkwerk hardware portfolio, various mounting options and decorative trims are also available as design element for the 55" Display and E-Kiosk.

## MAXIMUM FLEXIBILITY

The TFT 55" Display and E-Kiosk offer 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 they have a Stand-by-Function that automatically switches the displays to energy saving mode when inactive. Furthermore, an optional Text-to-Speech (TTS) function is available.

The TFT 55" Display and E-Kiosk are developed for indoor and outdoor use.

## HIGHLIGHTS

- » one-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

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## TECHNICAL DATA

### GENERAL DESCRIPTION

<b>Exact designation</b>	TFT 55" Display single-sided – Landscape / Portrait
	TFT 55" Display double-sided – Landscape / Portrait
	TFT 55" E-Kiosk single-sided – Landscape / Portrait
	TFT 55" E-Kiosk double-sided – Landscape / Portrait
<b>Area of application</b>	outdoor and indoor, also with direct sunlight

### TFT-PANEL

<b>Display area</b>	Screen size (H x W):	approx. 680 x 1.209 mm
	Screen diagonal:	55"
	Aspect ratio:	16:9 [Landscape] / 9:16 [Portrait]
	Resolution:	Full-HD with 1.920 x 1.080 pixels
<b>Display colour</b>	up to 16.7 million possible colours	
<b>Viewing angle</b>	typical 170° in horizontal and vertical direction	
<b>Initial brightness value</b>	max. 2.500 cd/m <sup>2</sup>	
<b>Initial contrast</b>	typical 6.000:1	
<b>Ambient light</b>	readable even in direct sunlight	
<b>Backlighting</b>	LED backlighting, brightness control according to ambient light	

## HOUSING

<b>Front glass</b>	anti-reflective laminated safety glass with thickness of approx. 8.8 mm, with highly effective IR and UV blocking filter
<b>Housing material</b>	galvanized steel / Aluminium
<b>Surface</b>	Base colour: Deep black RAL9005
<b>Fastening</b>	TFT 55" Display single-sided & double-sided: 4 x M12 threaded bolts  TFT 55" E-Kiosk single-sided & double-sided: above column base, 6 mounting holes for M16 threaded rods on the ground

## DIMENSIONS / WEIGHT

<b>Dimension (W x H x D)</b>	TFT 55" Display single-sided Portrait	840 x 1.370 x 252,5 mm
	TFT 55" Display single-sided Landscape	1.370 x 840 x 252,5 mm
	TFT 55" Display double-sided Portrait	840 x 1.370 x 252,5 mm
	TFT 55" Display double-sided Landscape	1.370 x 840 x 252,5 mm
	TFT 55" E-Kiosk single-sided Portrait	840 x 2.450 x 300 mm
	TFT 55" E-Kiosk single-sided Landscape	1.370 x 1.995 x 300 mm
	TFT 55" E-Kiosk double-sided Portrait	840 x 2.450 x 300 mm
	TFT 55" E-Kiosk double-sided Landscape	1.370 x 1.995 x 300 mm
<b>Weight (without trim strip)</b>	TFT 55" Display single-sided Portrait	ca. 120 kg
	TFT 55" Display single-sided Landscape	ca. 120 kg
	TFT 55" Display double-sided Portrait	ca. 130 kg
	TFT 55" Display double-sided Landscape	ca. 130 kg
	TFT 55" E-Kiosk single-sided Portrait	ca. 190 kg
	TFT 55" E-Kiosk single-sided Landscape	ca. 190 kg
	TFT 55" E-Kiosk double-sided Portrait	ca. 200 kg
	TFT 55" E-Kiosk double-sided Landscape	ca. 200 kg

## POWER SUPPLY

**Power supply** 230 V / 50 Hz, fused by FI/LS switch with 30 mA / 6 A,

tripping characteristic C

TFT 55" Display single-sided P = 530 W

TFT 55" Display double-sided P = 1.000 W

TFT 55" E-Kiosk single-sided P = 530 W

TFT 55" E-Kiosk double-sided P = 1.000 W

**Typical Power consumption Operation** TFT 55" Display single-sided 157 W / max. 330 W plus 200 W heating

TFT 55" Display double-sided 300 W / max. 600 W plus 400 W heating

TFT 55" E-Kiosk single-sided 157 W / max. 330 W plus 200 W heating

TFT 55" E-Kiosk double-sided 300 W / max. 600 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** approx. 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. 4x 3,5 GHz, integrated on-Board Vega GPU

**Standard Interfaces** DisplayPort, USB, Gigabit Ethernet / LAN / RJ45, etc.

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## INPUT / OUTPUT COMPONENTS

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<b>Release button</b> (Only for the E-Kiosk variants)	Push button with raised letter „i“ as information for persons with impaired vision. Touch surface 25 cm <sup>2</sup> . Optical actuation feedback. TSI PRM conformity
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<b>Acoustic output</b>	waterproof loudspeaker (IP65). Output power max. 18 W. Volume configurable
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<b>Read aloud function</b> (Only for the E-Kiosk variants)	Connection to TTS-Engine Server with streaming through MRCP for playback without time delay, license and voice package is not included. Optional license language package German / English / French. Other languages on request
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## SENSORS & MONITORING

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<b>Sensors / monitoring functions</b>	temperature & humidity, glass breakage, ambient light, backlight error and fan speed
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<b>Funkwerk Sensor Modul</b>	Funkwerk Sensor Modul for Stand By Controller of the displays, control of display brightness and train phase detection
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<b>Display control function and network access</b>	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
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<b>Brightness control &amp; Fallback display</b>	Brightness control according to ambient light. Display of a definable fallback page in case of interruption of the data connection
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