E-PAPER DISPLAY

The Funkwerk e-paper display offers state-of-the-art technology for dynamic passenger information at urban and rural stops. With its energy-efficient e-paper technology, it guarantees outstanding visual quality and supports high-resolution graphic content. Real-time data and fault messages make the display an indispensable all-rounder.

SELF-SUFFICIENT ENERGY SUPPLY

The Funkwerk e-paper display can be operated without a direct connection to the mains power supply, as it is equipped with a solar module and a built-in storage battery.

The display can be integrated into a robust housing with IP65 protection and IK09 impact resistance to reliably protect it from dust, water and mechanical impact. Mechanical sensors for vandalism detection can also be integrated. An optional text-to-speech (TTS) function is also available.

The e-paper display is designed for indoor and outdoor use.

HIGHLIGHTS

» energy-efficient display technology

» single-sided for indoor and outdoor use

» modular design – easy maintenance and good spare parts availability

» optional lighting and interactive functions

» voice control modules for accessibility

» excellent good readability in sunlight

» CE Certificate

TECHNICAL DATA

GENERAL DESCRIPTION

Product designation	E-Paper 13.3˝ single-sided – landscape / portrait E-Paper 32˝ single-sided – landscape / portrait E-Paper 42˝ single-sided – landscape / portrait double-sided display available on request
Area of application	outside and inside, even in direct sunlight

HOUSING

Front glass	anti-reflective laminated safety glass with thickness of ca. 4 mm, with highly effective IR and UV blocking filter Passepartout: black
Housing material	Aluminium (open frame)
Fastening	13.3˝ with M 8 x 30 / A2 32˝ and 42˝ are compatible with standard display mounts (VESA 400 x 400 mm)

E-PAPER

Display area	Screen diagonal: Screen size (W x H) [mm]: Aspect ratio: Resolution [px]	13.3" 202 x 270 L/P* 1.600 x 1.200	32" 389 x 692 L/P* 2.560 x 1.440	42" 854 x 637 L/P* 2.880 x 2.160
			*landscape/portrait	
Display colour	16 grey scales			
Viewing angle	typical 180° in horizontal and vertical direction			
Brightness	the reflective technology of the e-paper display is supplemented by integrated LED lighting for night-time operation			
Ambient light	readable even in direct sunlight			
Front lighting	LED lighting for night-time operation			

DIMENSION / WEIGHT

	Dimension (W x H x D) [mm]	Weight [kg]
E-Paper 13.3˝ single-sided	359 x 272 x 40	approx. 8
E-Paper 32˝ single-sided	808 x 513 x 40	approx. 18
E-Paper 42˝ single-sided*	957 x 740 x 59	approx. 51

POWER SUPPLY

Power supply	230 V / 50 Hz, P = 0,3 kW solar module: 20 W or 40 W, 24 Ah or 48 Ah		
Typical power consumption, operation	**13.3"** **single-sided**	**32"** **single-sided**	**42"** **single-sided**
	1.5 Wh	10 Wh	36 Wh

CLIMATIC AND ENVORINMENTAL CONDITIONS

Temperature range, operation	-20° C to +40° C
Temperature range, storage	-20° C to +70° C
Service life	approx. 8 years

CONTROL UNIT AND INTERFACES

Control unit	integrated controller
Interfaces (data supply)	Mobile network LTE / 3G / 4G Gigabit Ethernet / LAN

INPUT AND OUTPUT COMPONENTS

Acoustic output (optional)	waterproof loudspeaker (IP65) Output power max. 18 W Volume configurable optional licence language pack: German / English / French other languages on request

CERTIFICATIONS

Protection class	Monitor part IP 65
Approvals	CE (EMC and electrical safety)