SOLAR POWERED STATIONARY DISPLAYS



SOLAR POWERED DISPLAYS

- ■OPTIMAL medium for stand-alone (power/data cable free) information systems
- Solar powered systems with data transmission via mobile communications network
- Low cost signs for application at small bus stops
- Lifetime in complete darkness (no charging):
 - ■About 35 days with small battery pack
 - ■About 140 days with big battery pack
- Three different technologies
 - ■ChLCD Cholesteric bistable LCD
 - ■Reflective LCD
 - ■E-Paper

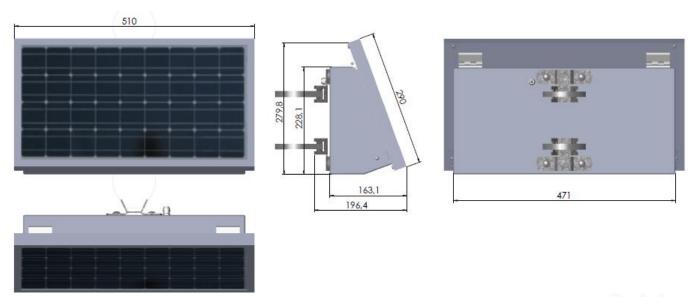






SOLAR KIT

Size of standard solar panel (20 Watt)



Dimensions in mm



BASIC OF CHLCD DISPLAY

- ■Display Type: Reflective
- Contrast Ratio 10:1
- ■Viewing angle: v/h 170°
- •Highest quality anti-reflective laminated safety glass
- Designed for operation in direct sunlight
- Operating temperature range: -20°C to +80°C
- Duration of complete image update : 3.5 seconds





ADVANTAGE OF CHLCD DISPLAY

- •Robust technology (mean expected lifetime of ChLCD > 10 years)
- Excellent readability in direct sunshine
- No battery replacement necessary
- ■Maintenance-free
- ■No power and data cables are required simple and inexpensive installation
- Several pages can be displayed
- Due to the high resolution, a wide variety of graphics (QR Code etc.) can be displayed
- Display of the next departures (real time) and a map on the same page







CHLCD INFO BOARDS FOR BUS STATION

- Screen diagonal: 16 inch (308 x 246 mm)
- ■Resolution: 800 x 640 Pixel per module
- Installation on existing masts no foundation work required
- •Modules can be clustered adjacent to each other seamlessly
- •Ultra-low power LEDs, controlled by motion sensor and light sensor
- Text-to-speech functionality





BASIC OF REFLECTIVE LCD DISPLAY

Display Technology: Reflective

Contrast Ratio: 10:1

Viewing angle: vertical 80°/ horizontal 140°

■Colour: monochrome

■Operating temperature range: -30°C to +80°C

■Duration of complete image update : 10 milliseconds





ADVANTAGE OF REFLECTIVE LCD DISPLAY

- Excellent readability in direct sunshine
- No battery replacement necessary
- Maintenance-free
- ■No power and data cables are required simple and inexpensive installation
- Several pages can be displayed
- ■Due to the high resolution, a wide variety of graphics (QR Code etc.) can be displayed





REFLECTIVE LCD INFO BOARDS FOR BUS STATION

- ■Resolution: 124 x 76 Pixel / module
- Installation on existing masts no foundation work required
- •Ultra-low power LEDs, controlled by motion sensor and light sensor
- •Modules can be clustered adjacent to each other seamlessly
- ■Display of ticker possible
- Text-to-speech functionality





BASIC OF E-PAPER DISPLAY

Display Technology: Reflective

Contrast Ratio: 16:1

■Viewing angle: v/h 170°

- •Highest quality anti-reflective laminated safety glass
- Designed for operation in direct sunlight
- ■Operating temperature range: -10°C to +50°C
- Duration of complete image update : 1 second





ADVANTAGE OF E-PAPER DISPLAY

- Excellent readability in direct sunshine
- No battery replacement necessary
- Maintenance-free
- ■No power and data cables are required simple and inexpensive installation
- Several pages can be displayed
- Due to the high resolution, a wide variety of graphics (QR Code etc.) can be displayed
- Display of the next departures (real time) and a map on the same page





E-PAPER INFO BOARDS FOR BUS STATION

- ■Screen diagonal: 13.3 inch (202.8 x 270.4 mm)
- ■Resolution: 1200 x 1600 Pixel per module
- Installation on existing masts no foundation work required
- Ultra-low power LEDs, controlled by motion sensor and light sensor
- Text-to-speech functionality

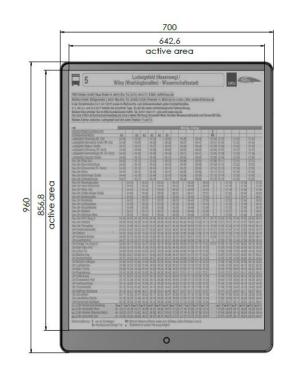




32" E-PAPER DISPLAY

■Same features as 13.3 inch sign, but much larger viewing area.







42" E-PAPER DISPLAY

42 inch E-Paper sign as a replacement for large printed timetable (railway application)







SPECIAL SOLUTIONS WITH SOLAR POWERED SIGNS

- For those who fear vandalism, mounting at overhead position.
- → only real-time departures, no interactivity.





SPECIAL SOLUTIONS WITH SOLAR POWERED SIGNS

- Solar Powered Smart light with Passenger Information
- Low power solar powered LED light (triggered by light sensor and motion sensor).





THANK YOU!

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