



LED displays
- custom LED displays



LED displays

Good looking, long life LED displays that can be customised. Isn't that nice?

We don't believe in making do. That's why you can have a custom display solution, without a huge MOQ - all at a reasonable price.

We design, develop and manufacture seven segment displays, dot matrix tiles and LED backlights as standard or custom.

With over twenty years in the business we've developed custom displays for many industries. We know the challenges you face, and just how to solve them.

Standard displays

- Seven Segment Displays (page 5)
- Interlocking Seven Segment Displays (page 7)
- Dot Matrix Tiles (page 9)

Check out our custom solutions:

- Customise - get it your way (page 11)
- Passenger information application (page 13)
- LED backlight (page 15)



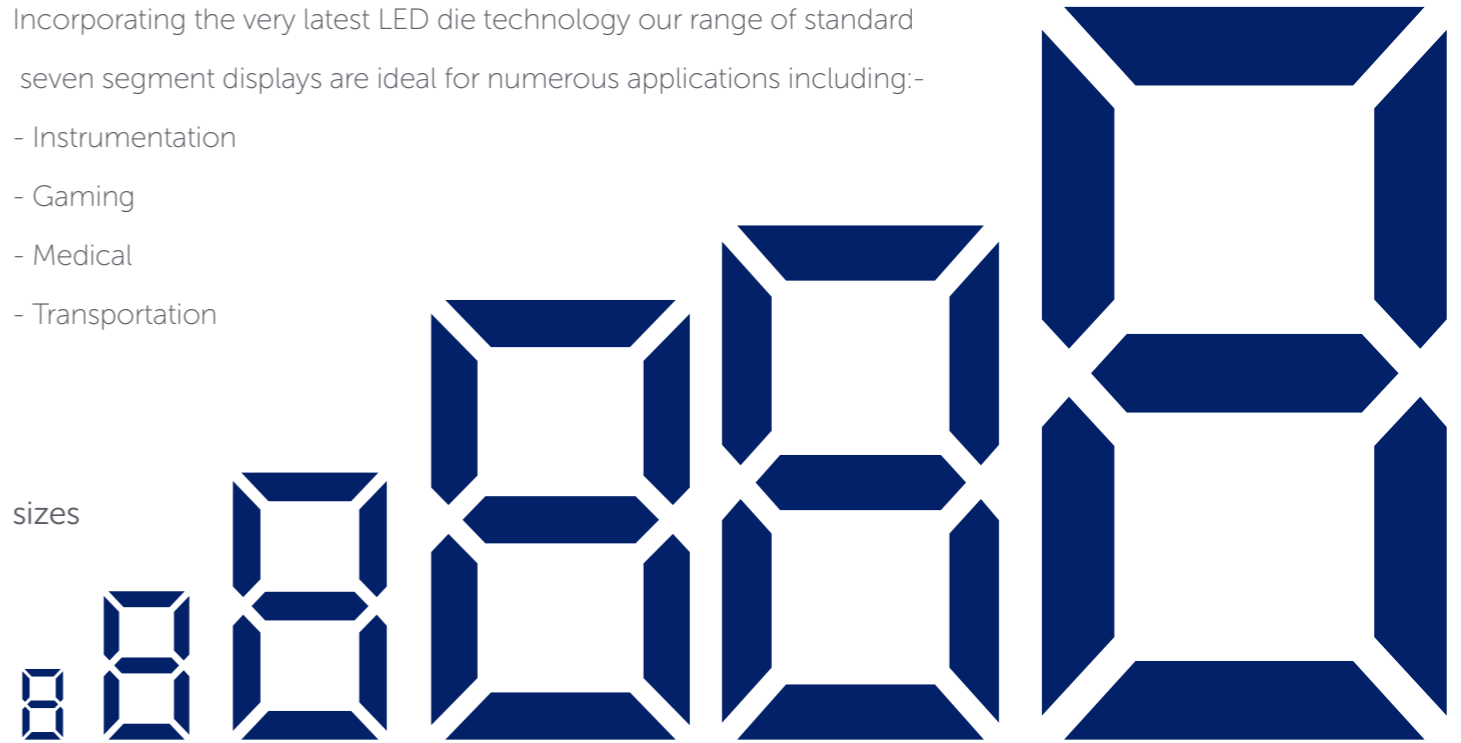


seven segment displays

Incorporating the very latest LED die technology our range of standard seven segment displays are ideal for numerous applications including:-

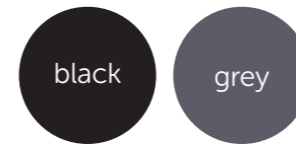
- Instrumentation
- Gaming
- Medical
- Transportation

sizes

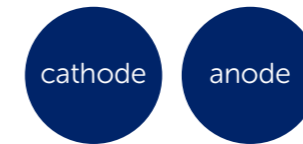


With sizes from 0.28" (7mm) to 4" (102mm), colour options, and multi-digit offerings there's plenty of choice.

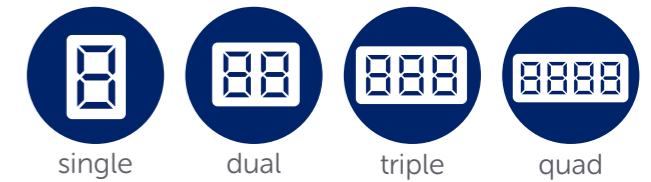
face colours



polarity



digit options



emitting colours



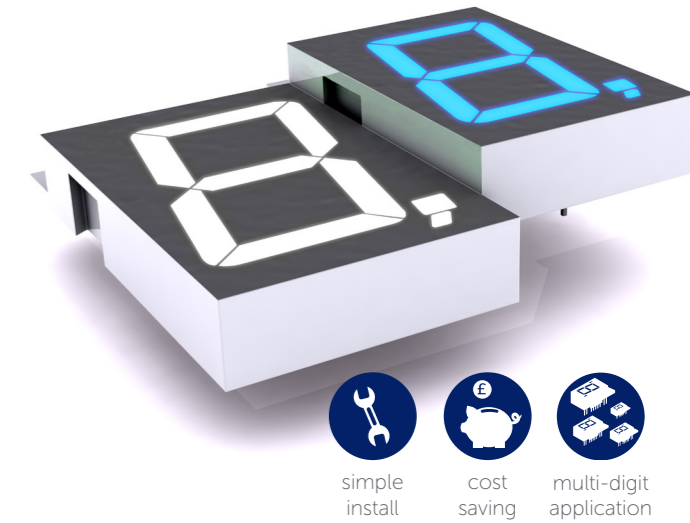
Please refer to product datasheet for complete product specification. E &OE

interlocking seven segment displays

Our innovative displays, originally developed with the gaming industry, reduce WIP, simplify installation and save you money.

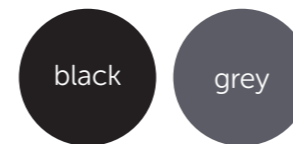
Solution

- A unique single digit interlocking moulding with a standard dovetail interconnect across all sizes
- Square pin out arrangement to accept industry standard IDC connectors, consistent across all sizes
- Integral mechanical fixing for mounting to cabinets
- High performance LED die in many colour options
- Reduced costs for PCB assembly
- Simple to install



With sizes from 0.56" (14mm) to 2.3" (57mm), choice of colours, and face colours there are plenty of options.

face colours



polarity



emitting colours



Please refer to product datasheet for complete product specification. E &OE



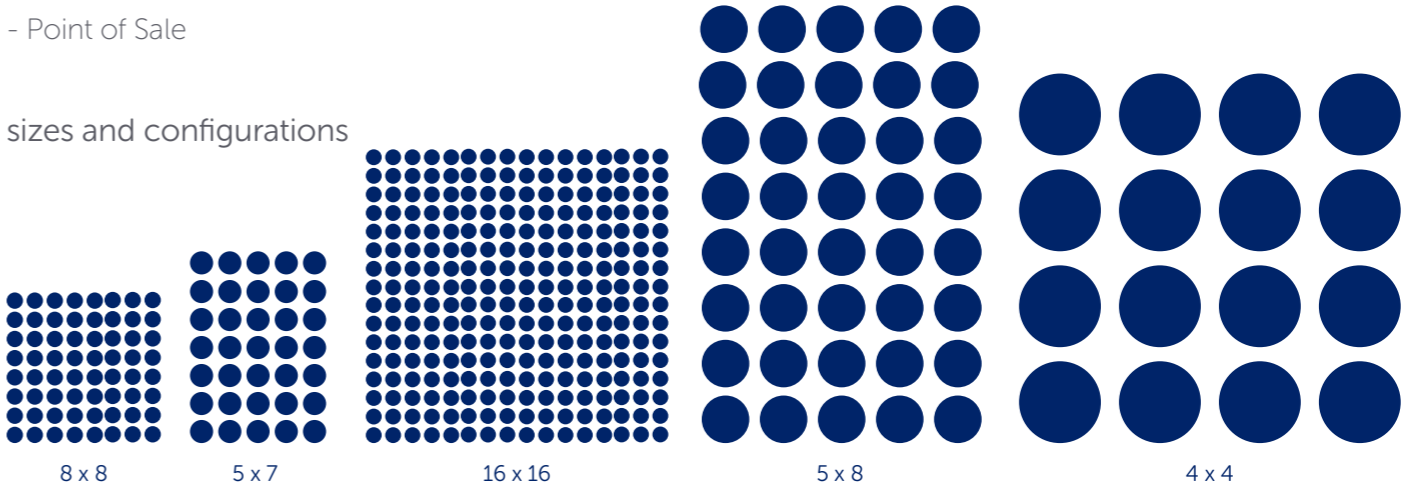
dot matrix displays

Create a full range of alphanumeric characters and simple graphics with our robust and high quality dot matrix displays.

Ideal for:-

- Clocks
- Passenger information boards
- Point of Sale

sizes and configurations



With sizes from 0.28" (7mm) to 4.2" (108mm), colour options, and dot configurations there's plenty of choice.

face colours



polarity



dot type



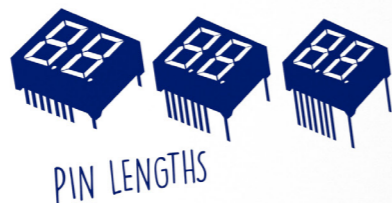
emitting colours



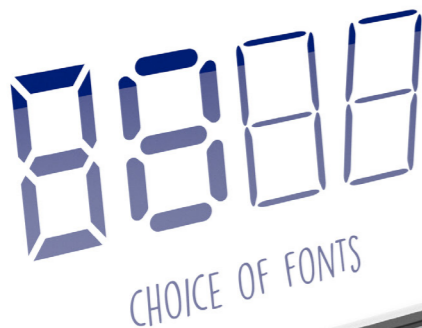
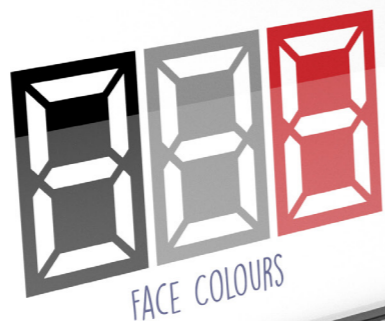
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CUSTOM DISPLAY SOLUTION



SIDE COLOURS



Customise - get it your way

A custom display from Forge gives you control and results, in a solution that really works for you.

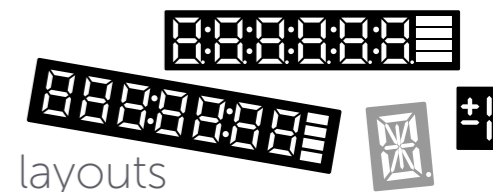
You can decide on how you want it to look and perform, providing you and your customer with some invaluable USPs.



If it needs to be seen, it's all about viewing angle and brightness. From very wide to narrow we've got it covered. We'll even introduce tight binning regimes for colour consistency and intensity.

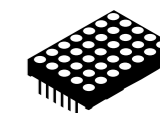


Once you're set on your performance and optical requirements you can consider style and the mechanics of your display. From face colours to pin lengths and font styles your display will look fantastic.



layouts

- get more from a single display. Custom layouts reduce stock holding and assembly.



side colours

- don't just consider face colours. Changing the side colours of your display really gives you some style.



fonts

- enjoy enhanced style with a choice of fonts for your custom display.

Feeling inspired? Check out our custom display solutions developed for specific applications and see just how going custom can benefit you. to page 12 onwards



custom displays in action

The high intensity dot matrix was developed specifically for passenger information to replicate the visual effect of SMD LED devices.

Objectives

- Save money
- Comparable visual characteristics to SMD LED

Considerations

- Minimum colour and intensity spread
- High dot intensity
- Wide viewing angle
- High contrast ratio
- Low cost

Solution

- Custom PCB with centralised dot chip
- Chip positioned very close to front face of the reflector
- Custom reflector shape around dot
- Water clear epoxy fill
- Selected high performance AlGaInP LED die
- Tight binning regime
- Black printed face
- Stackable in XY



low cost



highly visible



water clear dot

custom case study



custom displays in action

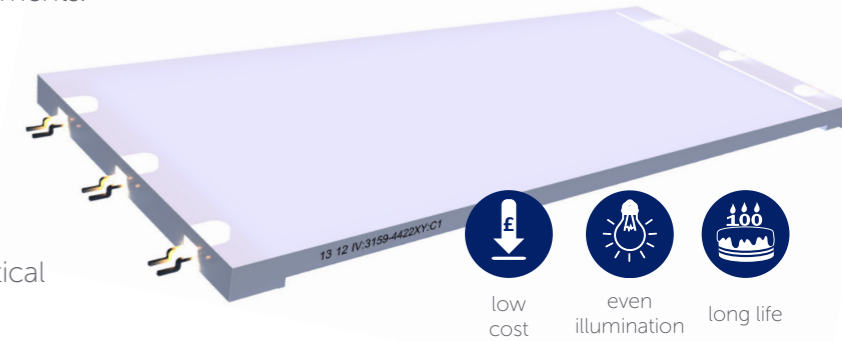
Backlighting solutions are ideal when you need to achieve even light distribution & contrast ratios for LCD screens, decorative panels and fluorescent replacements.

Objectives

- Develop illuminated backlights for PPU LCD displays in petrol pumps

Solution

- Tombstone through hole LEDs mounted into optical grade plastic
- Even illumination
- Reflective rear coating
- Edge reflective coating
- Selected chip for very tight colour binning and colour consistency
- Volume packed in vacuum packed trays
- Easy assembly



custom case study

Get your hands on them!

So, you want a nice looking custom LED display at a nice price?

Just speak to our expert team today. All we need is your requirements and we do the rest. Custom volumes are lower than you might expect. So, what are you waiting for?

Standard displays also available from Farnell.



Don't forget everything we do can be customised, so for all your lighting needs speak to Forge.



clever light solutions



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