The Fusion Series of Large displays

This is the 4 inch, 6 digit version (F4-6N) which is clearly legible up to 50m away. Many other sizes available.

Custom code available for YOUR special application!

Display functions
- Total
- Rate / Speed
- Target (ideal for production lines)
- Frequency
- Weight
- Temperature
- Humidity
- Real Time
- Elapsed Time
- Power, RPM, Torque
- Pressure
- ... any combination of the above

The Fusion series has these benefits...
- Easy to use, no-menu programming
- Smart styling, slim, easy to install
- Competitively priced
- Remote setting from ground level
- Modular options to suit your exact needs
- Displays can be built to custom formats
- Indoor and outdoor models
- Fast, free technical support
- Long warranty, extendable free of charge
- Can be built with AlphaNumeric displays
- Wide range of mounting and gland positions

Input signals for the Fusion
- 4-20mA, 0-10V, 1-5V etc
- Loadcells
- PNP, NPN, Namur, Contact closure, etc
- Serial Data RS232, 485, 422 etc.
- Temperature sensors
- Humidity sensors
- Logic Reset, Tare, Peak/Valley etc.

Sealing Standards
- IP65 for bottom glands, IP54 for top

What size digits are available?
- 57 mm for up to 25 metres viewing
- 102mm for up to 50 metres viewing
- 150mm for up to 75 metres viewing
- 200mm for up to 100 metres viewing
- 300mm for up to 140 metres viewing
- 400mm for up to 200 metres viewing

Which output options are possible?
- 2 or 4 alarm SPST relays, 2x SPDT
- 4-20mA, 0-10V or -10 to +10V analog
- RS232, RS485, Ethernet data output
Fusion display formats, colours and sizes

Model numbers:
- Fusion-C Counter/Rate
- Fusion-H Elapsed timer
- Fusion-L Weight/Load
- Fusion-P 4-20mA/0-10V
- Fusion-S Serial data

Applications:
- Factory time displays, public area clocks, down-counters, elapsed timers, time until event displays

Model numbers:
- Fusion-C Counter/Rate
- Fusion-H Elapsed timer
- Fusion-L Weight/Load
- Fusion-P 4-20mA/0-10V
- Fusion-S Serial data
- Fusion-T Temperature

Applications:
- Temperature, down-time, humidity, weight, load, RPM, rate, days since last accident displays.

Model numbers:
- Fusion-H Clock
- Fusion-S Serial data
- Fusion-T Time/Temp

Applications:
- Production line timing, factory clock synchronising with masters and slaves, Time until maintenance displays, time and temperature.

Digit sizes available as standard (shown much smaller than real size, to fit on page)

- 400 mm, 16” 200m viewing
- 300 mm, 12” 150m viewing
- 200 mm, 8 100m viewing
- 150 mm 6” 75m viewing
- 102 mm 4” 50m viewing
- 57mm 2.25” 25m viewing

A ‘Rule of Thumb’ about digit height and viewing distance:- For every 10 metres of viewing distance, you need digits 1” high (The typical width of a thumb). so, if you will be up to 65 metres away, you will need digits at least 7 inches high - round up to the nearest inch.

Digit colour options

Choose colours to match corporate image, to differentiate groups of displays or to suit the ambient lighting conditions.

We offer indoor and outdoor brightness versions.

- Red: Traditional, and the most popular colour. The lowest cost colour option, thanks to the high quantity of red displays we make. Ideal for outdoor mounting.

- Green: Preferred by those who consider red is an alarm colour. Best suited to indoor use, as green is less ‘punchy’ in direct sunlight.

- Yellow: Ideal for outdoor and roadside applications. Good brightness and contrast. A neutral colour just as clear as red.

- Blue: Fashionable and ‘cool’ to the eye. Adds a distinctive and sharp appearance to the display.

- White: Entirely neutral, neither warning red or AOK green, or cool blue. Modern, with a retro feel, as the earliest displays used white bulbs.
Create your ideal Intuitive or Fusion display with these building blocks

**Input Signal Conditioner boards...**
- Choose one:
  - Load cell board: 4 or 6 wire load cells, 10V 120mA excitation. Millivolt version for DC Current shunts.
  - Process board: 4-20mA, 0-10v, 0-5V, etc. 24V 60mA excitation.
  - Pulse input board: 4 channels NPN, PNP, contact closure, etc. 24V 60mA excitation.
  - Temp. board: Type J, K, T, R, S, B thermocouples, 3 or 4 wire PT100 RTDs.
  - AC input board: AC Voltage AC Current.
  - Serial input board: RS232 or RS485 Serial Input boards.

**Choose output options, if needed...**
- Analogue Output board, if needed:
  - 4-20mA, 0-10V, -10 to +10V
- Data output board, if needed:
  - RS232
  - RS485

**Real time clock option**
- Precision date and time module for clock format displays or if you need date and time stamps in your data output.

**Choose a display format...**
- 4 digit numeric: 8.8.8.8
- 6 digit numeric: 88:88

**Choose a digit size...**
- From 1/8 DIN panel meter format...
  - 14mm: 20mm: 57mm: 102mm: 150mm: 200mm: 300mm: 400mm...

**Output option main board with 0, 2 or 4 alarms**
- Mechanical or solid state relay
- 4 digit display shown with UM option for units of measure.
Ordering Guide. Create a full part number like this:

<table>
<thead>
<tr>
<th>Display Height</th>
<th>Digits and format</th>
<th>Function type</th>
<th>Analogue Output</th>
<th>Alarm Output</th>
<th>Serial Data Output</th>
<th>Colour &amp; brightness</th>
<th>Supply Voltage</th>
<th>Mounting &amp; Grand position &amp; Sealing</th>
<th>Special Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>2” 57mm digits</td>
<td>4 digits numeric</td>
<td>Counter - C</td>
<td>No output - 0</td>
<td>No alarms - 0</td>
<td>No data - RS232</td>
<td>Normal Inside Red</td>
<td>95-265VAC</td>
<td>Un-cased boards only</td>
<td>None</td>
</tr>
<tr>
<td>4” 102mm digits</td>
<td>4 digits clock</td>
<td>Clock/Timer - H</td>
<td>4-20mA +4C</td>
<td>2 alarms - AL2</td>
<td>RS485 slave - 48S</td>
<td>Green - G</td>
<td>11-30VDC</td>
<td>Wall, bottom, IP65</td>
<td>Units of measure</td>
</tr>
<tr>
<td>6” 150mm digits</td>
<td>6 digits numeric</td>
<td>Loadcell - L</td>
<td>0-10V -ANV - 6N</td>
<td>4 alarms - AL4</td>
<td>2xSPCO slave - SPCO</td>
<td>Yellow - Y</td>
<td>48VAC</td>
<td>Wall, top, IP54</td>
<td>RealTime Clock</td>
</tr>
<tr>
<td>8” 200mm digits</td>
<td>6 digits clock</td>
<td>Process - P</td>
<td>+/-10V -ANB - 6N</td>
<td>2xSPCO</td>
<td>2xSolid State - DSS</td>
<td>Blue - B</td>
<td>-48VAC</td>
<td>Suspension, top, IP54</td>
<td>8 memories</td>
</tr>
<tr>
<td>12” 300mm digits</td>
<td>8 digits numeric</td>
<td>RS232 slave - S2</td>
<td>0-10V - 8N</td>
<td>2xSolid State - QSS</td>
<td></td>
<td>White - W</td>
<td>-48VAC</td>
<td>Suspension, rear,IP54</td>
<td>3 wire pot input</td>
</tr>
<tr>
<td>16” 400mm digits</td>
<td>8 digits numeric</td>
<td>RS485 slave - S4</td>
<td>0-10V - 8N</td>
<td></td>
<td></td>
<td>Yellow - YDLV</td>
<td>-48VAC</td>
<td>Remote prog. - FUSRP</td>
<td>100 updates/sec</td>
</tr>
</tbody>
</table>

Example part number = F2-6N-P-A Ni-AL2-0-R-AC-2-0

An automated version of this page, which calculates pricing and includes new models, is available at [http://www.london-electronics.com/pl_fusion.php](http://www.london-electronics.com/pl_fusion.php)

Dimensions. Please note that adding the -UM option will increase the case width by 2 digits.

<table>
<thead>
<tr>
<th>Fusion 2</th>
<th>Fusion 4</th>
<th>Fusion 6</th>
<th>Fusion 8</th>
<th>Fusion 12</th>
<th>Fusion 16</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 digit</td>
<td>279.5(N)/291 (C) w x 154.5h</td>
<td>434(N)/453(C) w x 195.5h</td>
<td>580 w x 246.0h</td>
<td>750 w x 290.0h</td>
<td>1050 w x 408h</td>
</tr>
<tr>
<td>6 digit</td>
<td>376(N)/400(C) w x 154.5h</td>
<td>616(N)/653(C) w x 195.5h</td>
<td>820 w x 246.0h</td>
<td>1072 w x 290.0h</td>
<td>1540 w x 408h</td>
</tr>
<tr>
<td>8 digit</td>
<td>504 w x 154.5h</td>
<td>824 w x 195.5h</td>
<td>1060 w x 246.0h</td>
<td>1395 w x 290.0h</td>
<td>2022 w x 408h</td>
</tr>
</tbody>
</table>

Case width ‘w’ + 18 mm
Case height ‘h’ + 18 mm for all-round bezel

25mm Cable glands on bottom if IP65. Can be on top, but then IP54

M8 female threaded socket for mounting bracket

75mm Cable glands on rear if panel mounting

25mm M8 female threaded socket for mounting bracket

75mm Case height ‘h’ + 18 mm

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