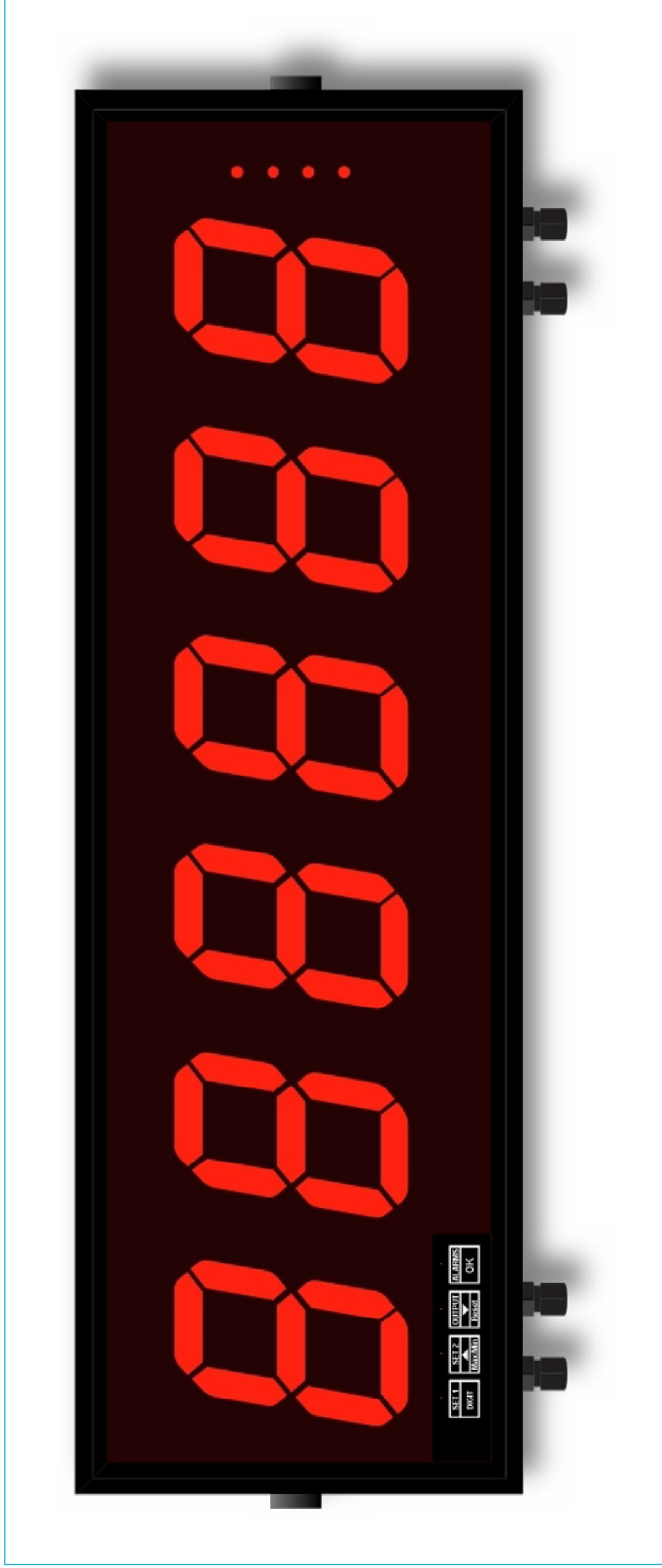


# The Fusion Series of Large displays



## 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
- Profibus DP
- 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

8.8.8.8.8.8

**Model numbers:-**  
 Fusion-C Counter/Rate  
 Fusion-L Weight/load  
 Fusion-P 4-20mA/0-10V  
 Fusion-S Serial data

**Applications:-**  
 Production totals, targets  
 Vehicle Weight, tank volume,  
 Silo contents, reservoir  
 capacity, kWh energy pro-  
 duced or consumed

88:88:88

**Model numbers:-**  
 Fusion-H Clock / Timer  
 Fusion-S Serial data

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

8.8.8.8

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

**Applications:-**  
 Temperature, humidity, weight,  
 load, RPM, rate

88:88

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

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

## 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.



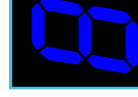
**Red:** Traditional, and the most popular colour. The lowest cost colour option, thanks to the high quantity of red displays we make. Ideal for outdoor mounting



**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.

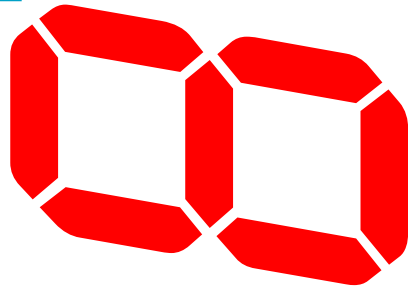


**White:** Entirely neutral, neither warning red or AOK green, or cool blue. Modern, with a retro feel, as the earliest displays used white bulbs.

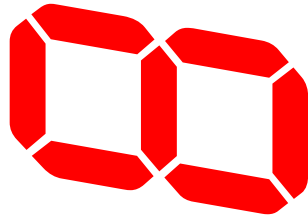
## Digit sizes available as standard (shown much smaller than real size, to fit on page)

**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.

400 mm  
16"



300 mm  
12"



200 mm  
8"



150 mm  
6"



102 mm  
4"



57 mm  
2.25"



# Create your ideal Intuitive or Fusion display with these building blocks ...

### Input Signal Conditioner boards ...

Choose one.

- Loadcell board
- Process board
- Pulse input board
- Temp. board
- AC input board
- Serial input board

4 or 6 wire loadcells  
10V 120mA excitation.  
Millivolt version for DC Current shunts

4-20mA, 0-10V, 0-5V, etc.  
24V 60mA excitation.

4 channels NPN, PNP, contact closure, etc.  
24V 60mA excitation.

Type J, K, T, R, S, B thermocouples  
3 or 4 wire PT100 RTDs.

AC Voltage AC Current

RS232 or RS485 Serial Input boards

### 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.

Signal conditioner goes here

**Main processor board AC or DC power**

3x Contact closure logic inputs, for use as tare, hold, peak, reset, page address etc.

### Choose output options, if needed ...

Analogue Output board, if needed

Choose one, or none.

- 4-20mA, 0-10V
- 10 to +10V

### Data output board, if needed

Choose one, or none.

- RS232
- RS485
- Ethernet

Analogue O/P is not available if Ethernet option is fitted

### Choose a display format...

4 digit numeric **8.8.8.8**

4 digit clock **88:88**

6 digit numeric **8.8.8.8.8.8**

6 digit clock **88:88:88**

### Choose a digit size...

From 1/8 DIN panel meter format ...

14mm

20mm

57mm

102mm

150mm

200mm

300mm

400mm

Digit-height choices

...to displays visible up to 200m away

### Output option main board with 0, 2 or 4 alarms

Mechanical or solid state relay

Mechanical or solid state relay

Mechanical or solid state relay

Mechanical or solid state relay

Analogue O/P board goes here

Data O/P board goes here

# Ordering Guide. Create a full part number like this:-

Display Height	Digits and format	Function type	Analogue Output	Alarm Output	Serial Data Output	Colour & brightness	Supply Voltage	Mounting & Gland position & Sealing	Special Requirements
2" 57mm digits <b>-F2</b>	4 digits numeric <b>-4N</b>	Counter <b>-C</b>	No output <b>-0</b>	No alarms <b>-0</b>	No data <b>-0</b>	Normal Inside	95-265VAC <b>-AC</b>	Panel, IP65 front	None <b>-0</b>
4" 102mm digits <b>-F4</b>	4 digits clock <b>-4C</b>	Clock/Timer <b>-H</b>	4-20mA <b>-ANI</b>	2 alarms <b>-ANI</b>	RS232 <b>-232</b>	Red <b>-R</b>	11-30VDC <b>-DC</b>	Wall, bottom, IP65	RealTime Clock <b>-RTC</b>
6" 150mm digits <b>-F6</b>	6 digits numeric <b>-6N</b>	Loadcell <b>-L</b>	0-10V <b>-ANV</b>	4 alarms <b>-AL4</b>	RS485 <b>-485</b>	Green <b>-G</b>		Suspension, top, IP65	8 memories <b>-MEM</b>
8" 200mm digits <b>-F8</b>	6 digits clock <b>-6C</b>	Process <b>-P</b>	+/-10V <b>-ANB</b>	2xSPCO <b>-SPCO</b>		Yellow <b>-Y</b>		Wall, top, IP54	3 wire pot input <b>-POT</b>
12" 300mm digits <b>-F12</b>	8 digits numeric <b>-8N</b>	RS232 slave <b>-S2</b>		2xSolid State <b>-DSS</b>		Blue <b>-B</b>		Suspension, top, IP54	100 updates/sec <b>-100X</b>
16" 400mm digits <b>-F16</b>		RS485 slave <b>-S4</b>				White <b>-W</b>		Suspension, rear, IP54	
		Temperature <b>-T</b>				Outdoor bright			
		Time +Temp. <b>-TT</b>				Red <b>-RDLV</b>			
		Time +RS485 <b>-TZ</b>				Green <b>-GDLV</b>			
		Millivolt <b>-M</b>				Yellow <b>-YDLV</b>			
						Blue <b>-BDLV</b>			

Example part number = **Fusion2-6N-P-ANI-AL2-0-R-AC-2-0**

## Dimensions

	Fusion 2	Fusion 4	Fusion 6	Fusion 8	Fusion 12	Fusion 16
<b>4 digit</b>	279.5(N)/291(C)w x 154.5h	434(N)/453(C)w x 195.5h	580w x 246.0h	750w x 290.0h	1050w x 408h	1368w x 515h
<b>6 digit</b>	376(N)/400(C)w x 154.5h	616(N)/653(C)w x 195.5h	820w x 246.0h	1072w x 290.0h	1540w x 408h	2020w x 515h
<b>8 digit</b>	504w x 154.5h	824w x 195.5h	1060w x 246.0h	1395w x 290.0h	2022w x 408h	2672w x 515h

