THE FUSION SERIES
OF LARGE DISPLAYS

ISO9001:2008

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

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

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

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LUMEL
EVERYTHING COUNTS

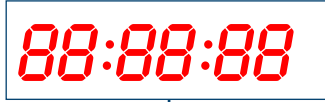## FUSION DISPLAY FORMATS, COLOURS AND SIZES

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:-
Production totals, targets
Vehicle Weight, tank volume,
Silo contents, reservoir capacity, kWh energy
produced or consumed

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

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 TT   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

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.
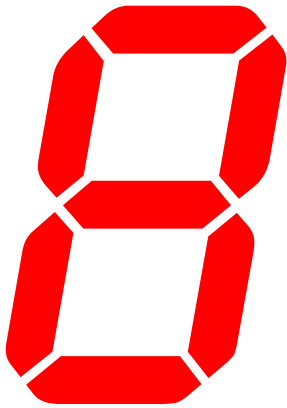
300 mm, 12"
150m viewing
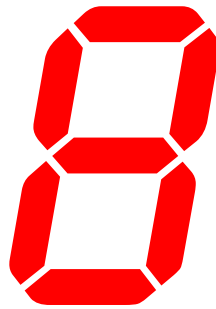
200 mm, 8
100m viewing"

150 mm
6"
75m viewing

102 mm
4"
50m viewing

57mm
2.25"
25m
view

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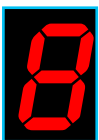
Red: Traditional, and the most popular colour.
The lowest cost colour option, thanks to the
high quantity of red displays we make. Ideal for
outdoor mounting

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

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

Green: Preferred by those who consider red is
an alarm colour. Best suited to indoor use, as
green is less 'punchy' in
direct sunlight.
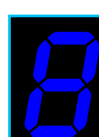
Blue: Fashionable and 'cool' to the eye. Adds a
distinctive and sharp appearance to the display.

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LUMEL
EVERYTHING COUNTS

CREATE YOUR IDEAL INTUITIVE OR FUSION DISPLAY WITH THESE BUILDING BLOCKS ...

Input Signal Conditioner boards ...
Choose one.

Loadcell board — 4 or 6 wire loadcells
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

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

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.
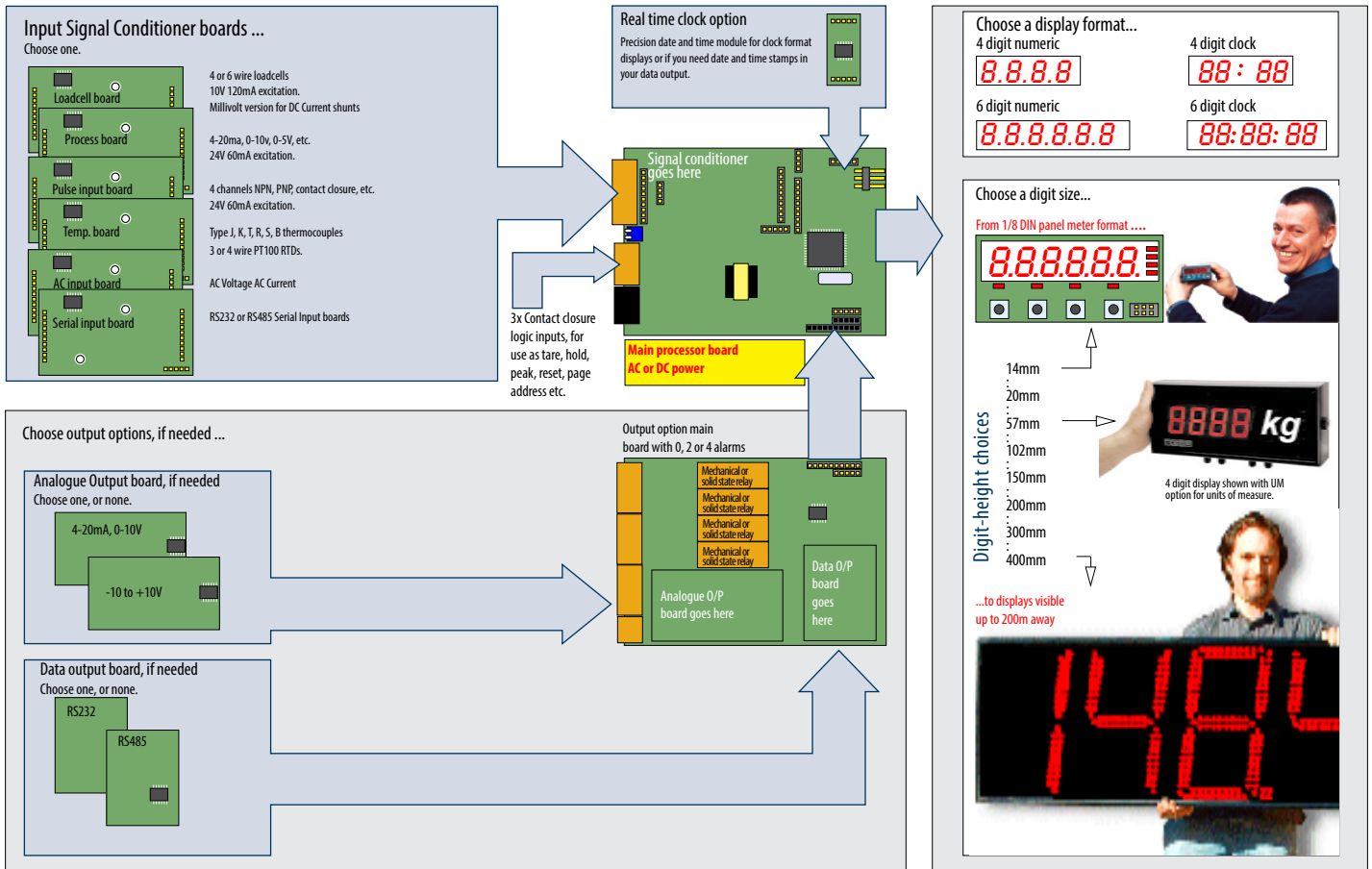
Signal conditioner goes here

Main processor board
AC or DC power

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

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

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 ....

8.8.8.8.8.8

Digit-height choices

14mm
20mm
57mm
102mm
150mm
200mm
300mm
400mm

8888 kg

4 digit display shown with UM option for units of measure.

...to displays visible up to 200m away

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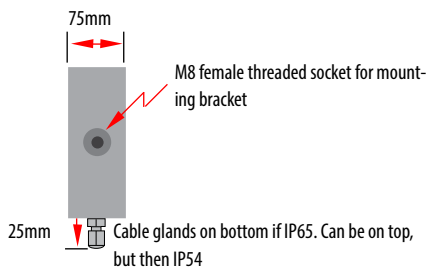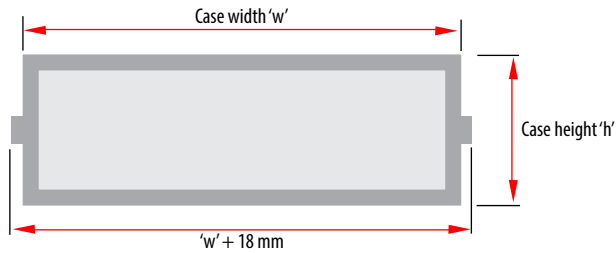
ORDERING CODE

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 **-F2**	4 digits numeric **-4N**	Counter **-C**	No output **-0**	No alarms **-0**	No data **-0**	Normal Inside	95-265VAC **-AC**	Un-cased boards only **-0**	None **-0**
4" 102mm digits **-F4**	4 digits clock **-4C**	Clock/Timer **-H**	4-20mA **-ANI**	2 alarms **-AL2**	RS232 **-232**	Red **-R**	11-30VDC **-DC**	Panel, IP65 front **-1**	Units of measure **-UM**
6" 150mm digits **-F6**	6 digits numeric **-6N**	Loadcell **-L**	0-10V **-ANV**	4 alarms **-AL4**	RS485 **-485**	Green **-G**	48VAC **-48VAC**	Wall, bottom, IP65 **-2**	RealTime Clock **-H**
8" 200mm digits **-F8**	6 digits clock **-6C**	Process **-P**	+/-10V **-ANB**	2xSPCO **-SPCO**		Yellow **-Y**		Suspension, top, IP65 **-3**	8 memories **-MEM**
12" 300mm digits **-F12**	8 digits numeric **-8N**	RS232 slave **-S2**		2xSolid State **-DSS**		Blue **-B**		Wall, top, IP54 **-4**	3 wire pot input **-POT**
16" 400mm digits **-F16**		RS485 slave **-S4**		4xSolid State **-QSS**		White **-W**		Suspension, top,IP54 **-5**	100 updates/sec **-100X**
		Temperature **-T**						Suspension, rear,IP54 **-6**	Remote prog. **-FUSRP**
		Time+Temp. **-TT**				Outdoor bright			Heater AC **-HTRAC**
		Time+RS485 **-TZ**				Red **-RDLV**			Heater 12VDC **-HTR12**
		Millivolt **-M**				Green **-GDLV**			Heater 24VDC **-HTR24**
						Yellow **-YDLV**			
						Blue **-BDLV**			

Example part number = **F2-6N-P-ANI-AL2-0-R-AC-2-0**

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

	Fusion 2	Fusion 4	Fusion 6	Fusion 8	Fusion 12	Fusion 16
4 digit	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
6 digit	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
8 digit	504w x 154.5h	824w x 195.5h	1060w x 246.0h	1395w x 290.0h	2022w x 408h	2672w x 515h

Case width 'w'

Case height 'h'

'w' + 18 mm

75mm

M8 female threaded socket for mounting bracket

25mm

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

75mm

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

M8 female threaded socket for mounting bracket

25mm

Cable glands on rear if panel mounting