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

8.8.8.8.8.8.

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

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-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.

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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.
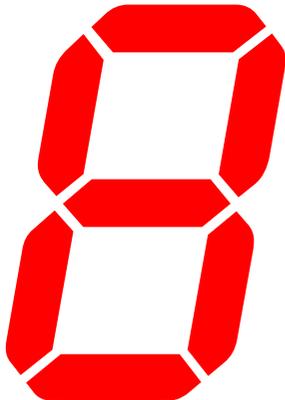A neutral colour just as clear as
red.

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"
200m viewing

300 mm, 12"
150m viewing
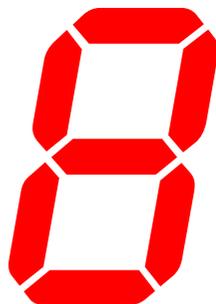
200 mm, 8
100m viewing"
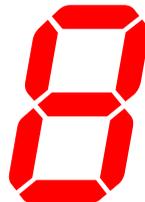
150 mm
6"
75m viewing

102 mm
4"
50m viewing

57mm
2.25"
25m
view

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

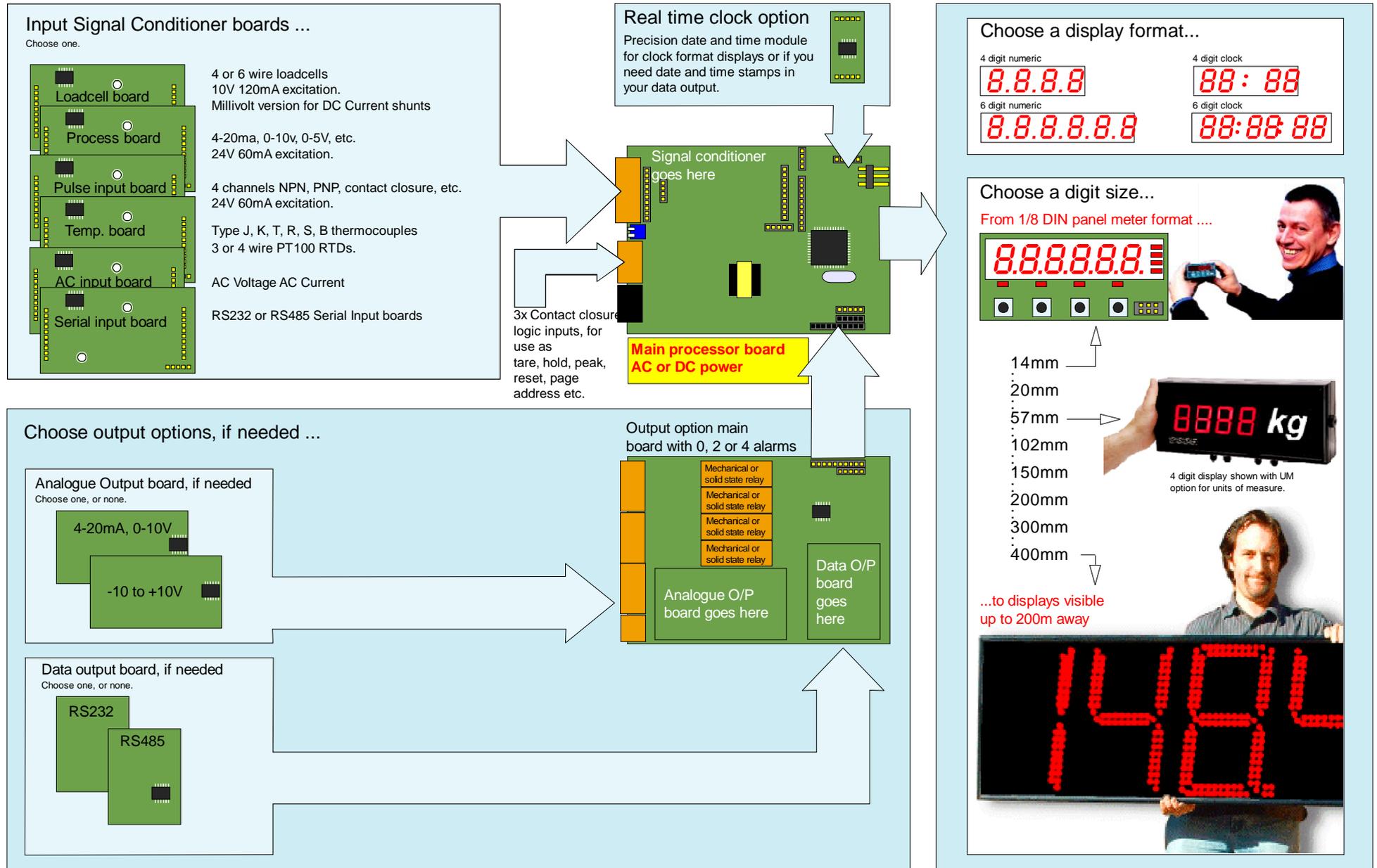**Serial input board** — RS232 or RS485 Serial Input boards

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

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

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.

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

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

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

For detailed technical information and manuals for this product, please contact Omni Instruments.

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