

SS-FUSION-H

Clock / Timer Large Digit Display



KEY FEATURES

- 4 or 6 digits
- 5 digit colours available
- IP66 sealed
- 316L stainless-steel enclosure
- Automatic Summer and Winter time correction
- Free-running or synchronised
- Viewing distances up to 110m
- AC or DC powered
- Wall or suspension mounting
- Alarm and data output options

DESCRIPTION

SS-FUSION large digit displays are primarily used for displaying numerical information, which is visible from a distance. The displays have alarm and data output options which can work with systems already in situ to control processes within that system.

The SS-FUSION-H is available as 4 or 6 digits and can work in clock, calendar or timer mode. These are ideal in Takt timing applications, process curing and as count-down displays to a big event. They are also ideal for showing factory safety data such as days since last accident, with automatic day counting and simple preset and reset functions.

OPERATING MODES

Mode	Digit Format	Description
Clock	HH:MM / HH:MM:SS	Real time clock. Can be set as 12 or 24 hour clock. Daylight saving time can be set to OFF, Europe or US
Calendar	DD.MM.YY	Shows today's date in UK format
Calendar	MM.DD.YY	Shows today's date in US format
Day Counter	8888 / 888888	Counts up or down by 1 each day. Useful for counting days since last accident or days until an event
Timer	HH:MM	Counts up or down in hours and minutes
Timer	HH:MM:SS	Counts up or down in hours, minutes and seconds
Timer	MM:SS	Counts up or down in minutes and seconds
Timer	MMMM	Counts up or down in minutes
Timer	SSSS	Counts up or down in seconds
Timer	SSS.t	Counts up or down in seconds to 1/10 second resolution
Timer	SSSSS.t	Counts up or down in seconds to 1/10 second resolution

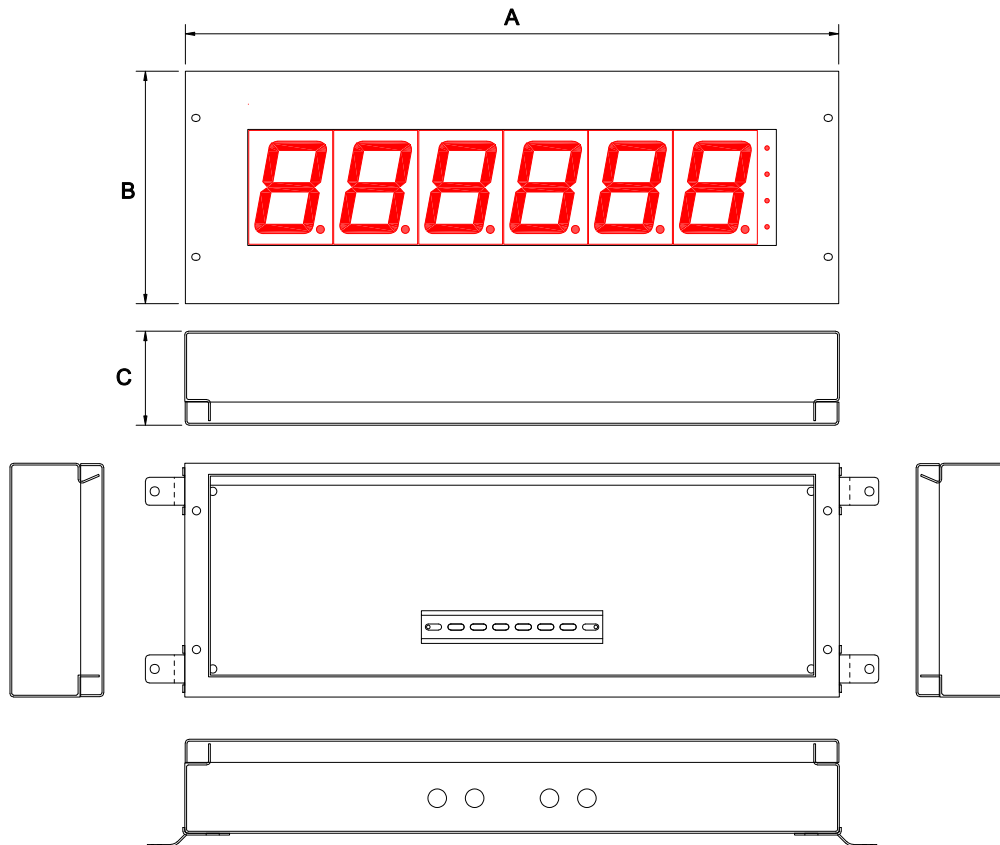
Notes:

- i. Be sure to select the correct number of digits for your application, either 4 or 6 digits



DIMENSIONAL DRAWINGS

Wall or Suspension Mounting



DIMENSIONS (mm)

Model	Digit Format	Width (A)	Height (B)	Depth (C)
SS-F2-4N	2" 4 digit	350	225	100
SS-F2-6N	2" 6 digit	450	225	100
SS-F4-4N	4" 4 digit	525	250	100
SS-F4-6N	4" 6 digit	700	250	100
SS-F6-4N	6" 4 digit	625	350	100
SS-F6-6N	6" 6 digit	850	350	100
SS-F8-4N	8" 4 digit	800	400	100
SS-F8-6N	8" 6 digit	1125	400	100

Notes:

- i. E & OE



TECHNICAL DATA				
Digit Height (inches)	2.2 (SS-F2)	4.0 (SS-F4)	5.9 (SS-F6)	7.9 (SS-F8)
Digit Height (millimeters)	57	102	150	200
Viewing Distance (feet)	82	180	262	360
Viewing Distance (metres)	25	55	80	110
Number of Digits	4 or 6			
Digit Format	8.8.8.8., 8.8.8.8.8.8., 88:88, 88:88:88			
Input Signal	Real time clock module (DS3231SN)			
Accuracy	Better than +/- 10 seconds per month			
Battery Backup	CR1620 3V Lithium (retains time in memory during power loss but display is not lit)			
Digit Colour	Green, red, yellow. Blue and white also available on 6" and 8"			
Brightness	Indoor or outdoor with 7 levels of adjustment			
Power Supply	95-265V AC (standard), 11-30V DC (optional), 48V AC (optional)			
Power Burden	40VA maximum			
Mounting	Wall or suspension			
Logic Inputs	3 x NPN or contact closure for START, STOP and RESET when used in timing mode			
Environmental				
Enclosure Material	316L stainless-steel			
Lens Material	Polycarbonate, 6mm thick			
Sealing	IP66			
Storage Temperature	-20°C to +70°C, non-condensing			
Operating Temperature	0°C to +50°C, non-condensing			
Connectors	Internal detachable screw terminal connectors accessed via compression glands			
Alarm Outputs (optional)				
AL2 and AL4 Option	2 or 4 x SPST mechanical relays, 2A @ 250V AC, resistive load			
DSS and QSS Option	2 or 4 x solid state relays, specify AC or DC, 100mA max @ 250V AC, 500mA max @ 60V DC			
SPCO Option	2 x SPCO mechanical relays, 2A @ 250V AC, resistive load			
Response Speed	For mechanical relays allow 105mS, for solid state relays allow 100mS			
Data Output (optional)				
232 Option	RS232 ASCII			
485 Option	RS422/RS485 ASCII + Modbus ASCII			
RTU Option	Modbus RTU			
Response Speed	Derived from displayed value, updated x10 per second, display filtering applies to data output			
Isolation	250V AC optically isolated from input, logic, power and alarms output ports			
Time Server Synchronisation (Optional)				
NTP Option	Synchronisation with internet time server			



ORDERING GUIDE

Digit Height:		SS - X	- X	- H	- 0	- X	- X	- X	- X	- X
F2 2 inches (57mm)	F4 4 inches (102mm)									
F6 6 inches (150mm)	F8 8 inches (200mm)									
Digit Format:										
4N 8.8.8.8. - 4 digit, numeric format										
6N 8.8.8.8.8.8 - 6 digit, numeric format										
Function / Input Type:										
H Clock / Timer										
Analogue Output:										
0 None										
Alarm Outputs:										
0 None		AL2 2 x SPST mechanical relays	AL4 4 x SPST mechanical relays							
DSS 2 x solid state relays (specify AC or DC)		QSS 4 x solid state relays (specify AC or DC)								
SPCO 2 x SPCO mechanical relays										
Data Output:										
0 None		232 RS232	485 RS422/485 + Modbus ASCII			RTU Modbus RTU				
Digit Colour:										
Indoor		Outdoor								
B Blue 6" and above	BDLV Blue 6" and above									
G Green	GDLV Green									
R Red	RDLV Red									
W White 6" and above	WDLV White 6" and above									
Y Yellow	YDLV Yellow									
Power:										
48VAC 48V AC		AC 95-265V AC			DC 11-30V DC					
Mounting:										
2	Wall, Cable glands on bottom surface									
3	Suspension, Cable glands on bottom surface									
4	Wall, Cable glands on top surface									
5	Suspension, Cable glands on top surface									

ADDITIONAL OPTION

NTP Synchronisation with internet time server

