

FUSION-L

Load Cell Input Large Digit Display



KEY FEATURES

- 4 or 6 digits
- 5 digit colours available
- Indoor or outdoor brightness
- 4 or 6 wire load cell input
- Powers up to 4 x 350Ω load cells
- 10V @ 120mA excitation voltage (5V optional)
- IP65 sealed
- Viewing distances up to 600m (1,968 feet)
- AC or DC powered
- Wall, suspension or panel mounting
- Alarm, analogue and data output options

DESCRIPTION

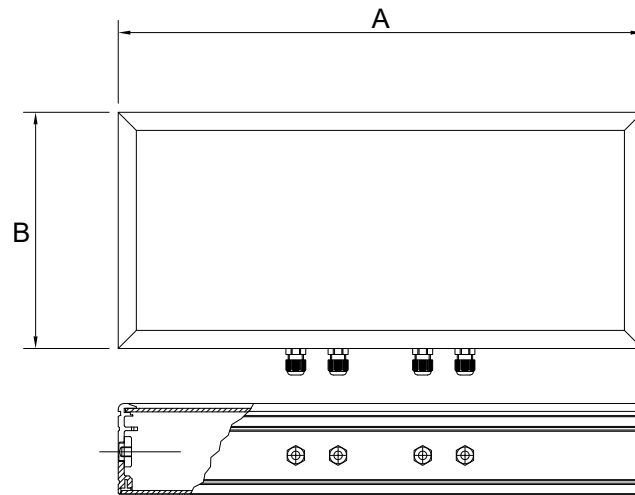
FUSION large digit displays are primarily used for displaying numerical information which is visible from a distance. In addition, the displays have several analogue, alarm and data output options which can work with systems already in situ to control processes within the system.

The FUSION-L is available as 4 or 6 digits and can accept a 4 or 6 wire load cell input. The displays are easily scalable and are a versatile addition to your process. They can accept most common weight, torque, force and strain signals.

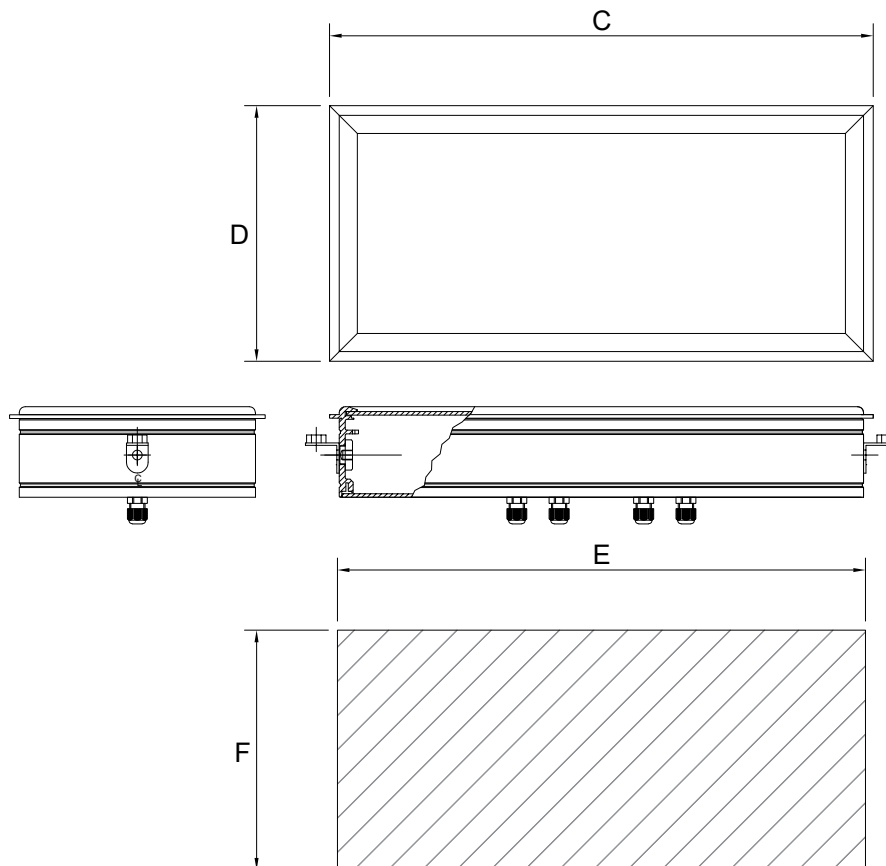


DIMENSIONAL DRAWINGS

Wall or Suspension Mounting



Panel Mounting



Notes:

- i. Refer to dimensions on next page
- ii. Enclosure depth is 75mm
- iii. Allow at least 100mm behind the panel for panel mounting displays

DIMENSIONS and WEIGHTS (mm) (kg)

Model	Digit Format	Wall or Suspension Mounting		Panel Mounting Bezel		Panel Mounting Cutout		Weight
		Width (A)	Height (B)	Width (C)	Height (D)	Width (E)	Height (F)	
F2-4N FB	2" 4 digit	279.5	154.5	297.5	172.5	282.5	157.5	2
F2-4N UM FB	2" 4 digit UM option	376	154.5	394	172.5	379	157.5	2.5
F2-6N FB	2" 6 digit	376	154.5	394	172.5	379	157.5	3
F2-6N UM FB	2" 6 digit UM option	504	154.5	522	172.5	507	157.5	3.5
F4-4N FB	4" 4 digit	434	195.5	452	213.5	437	198.5	3
F4-4N UM FB	4" 4 digit UM option	616	195.5	634	213.5	619	198.5	3.5
F4-6N FB	4" 6 digit	616	195.5	634	213.5	619	198.5	4.5
F4-6N UM FB	4" 6 digit UM option	824	195.5	842	213.5	827	198.5	5
F6-4	6" 4 digit	580	246	598	264	583	249	4
F6-4 UM	6" 4 digit UM	820	246	840	264	823	249	5
F6-6	6" 6 digit	820	246	838	264	823	249	6
F6-6 UM	6" 6 digit UM	1060	246	1080	264	1063	249	7
F8-4	8" 4 digit	750	290	768	308	753	293	6
F8-4 UM	8" 4 digit UM	1072	290	1092	308	1075	293	7
F8-6	8" 6 digit	1072	290	1090	308	1075	293	8
F8-6 UM	8" 6 digit UM	1395	290	1274	308	1257	293	9
F12-4	12" 4 digit	1058	408	1068	426	1053	411	8
F12-4 UM	12" 4 digit UM	1535	408	1560	426	1543	411	10
F12-6	12" 6 digit	1535	408	1558	426	1543	411	12
F12-6 UM	12" 6 digit UM	1722	408	1742	426	1725	411	14
F16-4	16" 4 digit	1368	515	1386	533	1371	518	12
F16-4 UM	16" 4 digit UM	2020	515	2040	533	2023	518	14
F16-6	16" 6 digit	2020	515	2038	533	2023	518	16
F16-6 UM	16" 6 digit UM	2202	515	2222	533	2205	518	18
F24-4	24" 4 digit	1975	750	-	-	-	-	20
F24-4 UM	24" 4 digit UM	2963	750	-	-	-	-	22
F24-6	24" 6 digit	2963	750	-	-	-	-	22
F24-6 UM	24" 6 digit UM	3950	750	-	-	-	-	23
F32-4	32" 4 digit	2556	946	-	-	-	-	24
F32-4 UM	32" digit UM	3834	946	-	-	-	-	28
F32-6	32" 6 digit	3834	946	-	-	-	-	36
F32-6 UM	32" 6 digit UM	5112	946	-	-	-	-	40
F48-4	48" 4 digit	3436	1300	-	-	-	-	32
F48-4 UM	48" 4 digit UM	5154	1300	-	-	-	-	38
F48-6	48" 6 digit	5154	1300	-	-	-	-	48
F48-6 UM	48" 6 digit UM	6872	1300	-	-	-	-	54

Notes:

- i. 2" 4 digit displays with any output options fitted require a wider enclosure (UM option)
- ii. 2" 4 digit and 4" 4 digit displays with any HEATER options fitted require a wider enclosure (UM option)
- iii. All displays with 48V AC power option require a wider enclosure (UM option)
- iv. E & OE

TECHNICAL DATA

Digit Height (inches)	2.2 (F2)	4.0 (F4)	5.9 (F6)	7.9 (F8)	11.8 (F12)	15.7 (F16)	23.6 (F24)	31.5 (F32)	47.2 (F48)
Digit Height (millimeters)	57	102	150	200	300	400	600	800	1200
Viewing Distance (feet)	82	180	262	360	508	672	1,000	1,328	1,968
Viewing Distance (metres)	25	55	80	110	155	205	305	405	600
Number of Digits	4 or 6								
Digit Format	8.8.8.8. or 8.8.8.8.8.8.								
Input Signal	4 or 6 wire load cell								
Accuracy	+/- 0.05% of range								
Digit Colour	Blue, green, red, white or yellow								
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	Brackets supplied for wall, suspension or panel mounting								
Front Panel Controls	Up to 200mm high digits, above 200mm high digits requires an optional wired or wireless controller								
Logic Inputs	3 x NPN or contact closure for tare, peak/valley, reset								
Environmental									
Enclosure Material	Heavy duty welded uPVC								
Lens Material	Acrylic								
Sealing	IP65								
Storage Temperature	-20°C to +70°C, non-condensing								
Operating Temperature	0°C to +50°C, non-condensing								
Extended Operating Temperature	-25°C to +50°C, non-condensing (with optional heater fitted inside display)								
Connectors	Internal detachable screw terminal connectors accessed via compression glands								
Analogue Output (optional)									
ANB Option	-10 to +10V into loads >1k Ohms, resolution 0.4mV								
ANI Option	0-20mA or 4-20mA into loads <500 Ohms, resolution 0.4uA								
ANV Option	0-10V into loads >1k Ohms, resolution 0.2mV								
Scaling	Fully adjustable, direct or inverse. Can be derived from GROSS or NETT value								
Response Speed	Derived from displayed value, updated x10 per second, display filtering applies to analogue output								
Linearisation	Derived from displayed value								
Isolation	250V AC optically isolated from input, logic, excitation, power, alarms and data output ports								
Accuracy	+/- 0.1% of range								
Linearity	+/- 0.02% of range								
Stability	+/- 50ppm/°C								
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, excitation, power, alarms and analogue output ports								

ORDERING GUIDE

Digit Height:		X	- X	- L	- X	- X	- X	- X	- X	- X
F2 2 inches (57mm)	F4 4 inches (102mm)									
F6 6 inches (150mm)	F8 8 inches (200mm)									
F12 12 inches (300mm)	F16 16 inches (400mm)									
F24 24 inches (600mm)	F32 32 inches (800mm)									
F48 48 inches (1200mm)										
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:										
L Load cell input										
Analogue Output:										
0 None	ANB -10 to +10V	ANI 4-20mA	ANV 0-10V							
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:										
Wall		Suspension		Panel						
2	Cable glands on bottom	3	Cable glands on bottom	1	Cable glands on rear					
2L	Larger brackets, cable glands on bottom	3BB	Back to back, cable glands on bottom							
2SS	316 SS brackets, cable glands on bottom	3SS	316 Stainless steel brackets, glands on bottom							
4	Cable glands on top	5	Cable glands on top							
4L	Large brackets, cable glands on top	5BB	Back to back cable glands on top							
10	Cable glands on rear	6	Cable glands on rear							
7	Cable glands on bottom (includes wall and suspension brackets)									
8	Cable glands on top (includes wall and suspension brackets)									

