

## EXNR-FUSION-S4

*Serial Input Large Digit Display*



### KEY FEATURES

- 4 or 6 digits
- 5 digit colours available
- Certified for use in ATEX zones 2 and 22
- IP66 sealed
- 316L stainless-steel enclosure
- Indoor or outdoor brightness
- RS422 / RS485 input
- Viewing distances up to 110m
- AC or DC powered
- Wall or suspension mounting
- Alarm, analogue and data output options

### DESCRIPTION

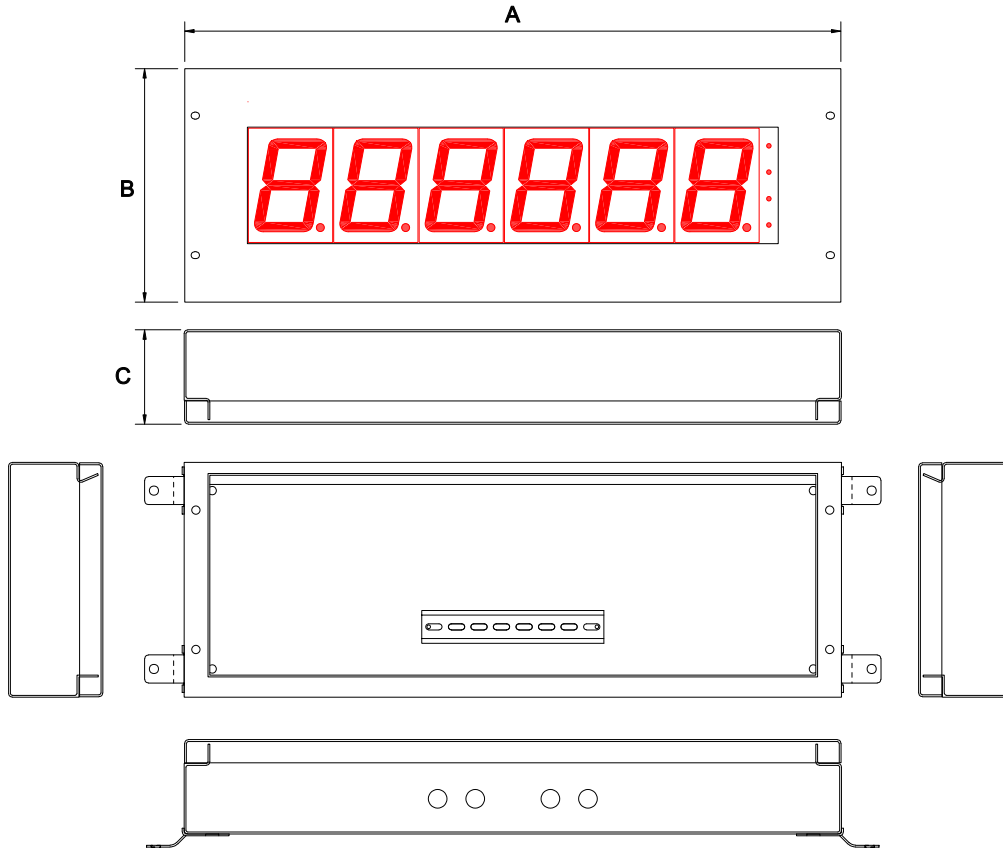
EXNR-FUSION large digit displays are primarily used for displaying numerical information which is visible from a distance. In addition, the displays have several analogue, alarm and data output options which can work with systems already in situ to control processes within the system.

The EXNR enclosure is made from 316L stainless-steel and certified for use in ATEX zones 2 and 22.

The EXNR-FUSION-S4 is available as 4 or 6 digits and accepts an RS422 / RS485 data signal. The displays are easily configurable for simple data strings or for more complex data strings with specific data extracted and shown.

## DIMENSIONAL DRAWINGS

Wall or Suspension Mounting



## DIMENSIONS (mm)

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

**Notes:**

- i. E & OE

## TECHNICAL DATA

<b>Digit Height (inches)</b>	2.2 (F2)	4.0 (F4)	5.9 (F6)	7.9 (F8)
<b>Digit Height (millimeters)</b>	57	102	150	200
<b>Viewing Distance (feet)</b>	82	180	262	360
<b>Viewing Distance (metres)</b>	25	55	80	110
<b>Number of Digits</b>	4 or 6			
<b>Digit Format</b>	8.8.8.8. or 8.8.8.8.8.8.			
<b>Input Signal</b>	RS422 / RS485			
<b>Digit Colour</b>	Green, red or yellow. Blue and white available for 6" and 8"			
<b>Brightness</b>	Indoor or outdoor with 7 levels of adjustment			
<b>Power Supply</b>	95-265V AC (standard), 11-30V DC (optional), 48V AC (optional)			
<b>Power Burden</b>	40VA maximum			
<b>Mounting</b>	Brackets supplied for wall or suspension mounting			
<b>Logic Inputs</b>	3 x NPN or contact closure for START, STOP and RESET when used in timing mode			
<b>Environmental</b>				
<b>Enclosure Material</b>	316L stainless-steel			
<b>Lens Material</b>	Polycarbonate, 6mm thick			
<b>Enclosure Certification (gas)</b>	II 3 G EX nR IIC T6 Gc			
<b>Enclosure Certification (dust)</b>	II 3 D Ex tc IIIC T85°C Dc IP66			
<b>Sealing</b>	IP66			
<b>Storage Temperature</b>	-20°C to +70°C, non-condensing			
<b>Operating Temperature</b>	0°C to +50°C, non-condensing			
<b>Connectors</b>	Internal detachable screw terminal connectors accessed via compression glands			
<b>Analogue Output (optional)</b>				
<b>ANB Option</b>	-10 to +10V into loads >1k Ohms, resolution 0.4mV			
<b>ANI Option</b>	0-20mA or 4-20mA into loads <500 Ohms, resolution 0.4uA			
<b>ANV Option</b>	0-10V into loads >1k Ohms, resolution 0.2mV			
<b>Scaling</b>	Fully adjustable, direct or inverse. Can be derived from GROSS or NETT value			
<b>Response Speed</b>	Derived from displayed value, updated x10 per second, display filtering applies to analogue output			
<b>Linearisation</b>	Derived from displayed value			
<b>Isolation</b>	250V AC optically isolated from input, logic, excitation, power, alarms and data output ports			
<b>Accuracy</b>	+/- 0.1% of range			
<b>Linearity</b>	+/- 0.02% of range			
<b>Stability</b>	+/- 50ppm/°C			
<b>Alarm Outputs (optional)</b>				
<b>AL2 and AL4 Option</b>	2 or 4 x SPST mechanical relays, 2A @ 250V AC, resistive load			
<b>DSS and QSS Option</b>	2 or 4 x solid state relays, specify AC or DC, 100mA max @ 250V AC, 500mA max @ 60V DC			
<b>SPCO Option</b>	2 x SPCO mechanical relays, 2A @ 250V AC, resistive load			
<b>Response Speed</b>	For mechanical relays allow 105mS, for solid state relays allow 100mS			
<b>Data Output (optional)</b>				
<b>232 Option</b>	RS232 ASCII			
<b>485 Option</b>	RS422/RS485 ASCII + Modbus ASCII			
<b>RTU Option</b>	Modbus RTU			
<b>Response Speed</b>	Derived from displayed value, updated x10 per second, display filtering applies to data output			
<b>Isolation</b>	250V AC optically isolated from input, logic, excitation, power, alarms and analogue output ports			

## ORDERING GUIDE

<b>Digit Height:</b>		<b>EXNR - X</b>	<b>- X</b>	<b>- S4</b>	<b>- X</b>	<b>- X</b>	<b>- X</b>	<b>- X</b>	<b>- X</b>	<b>- X</b>
<b>F2</b> 2 inches (57mm)	<b>F4</b> 4 inches (102mm)									
<b>F6</b> 6 inches (150mm)	<b>F8</b> 8 inches (200mm)									
<b>Digit Format:</b>										
<b>4N</b> 8.8.8.8. - 4 digit, numeric format										
<b>6N</b> 8.8.8.8.8.8 - 6 digit, numeric format										
<b>Function / Input Type:</b>										
<b>S4</b> RS422 / RS485 input										
<b>Analogue Output:</b>										
<b>0</b> None	<b>ANB</b> -10 to +10V	<b>ANI</b> 4-20mA	<b>ANV</b> 0-10V							
<b>Alarm Outputs:</b>										
<b>0</b> None	<b>AL2</b> 2 x SPST mechanical relays	<b>AL4</b> 4 x SPST mechanical relays								
<b>DSS</b> 2 x solid state relays (specify AC or DC)	<b>QSS</b> 4 x solid state relays (specify AC or DC)									
<b>SPCO</b> 2 x SPCO mechanical relays										
<b>Data Output:</b>										
<b>0</b> None	<b>232</b> RS232	<b>485</b> RS422/485 + Modbus ASCII	<b>RTU</b> Modbus RTU							
<b>Digit Colour:</b>										
<b>Indoor</b>		<b>Outdoor</b>								
<b>B</b> Blue 6" and 8"	<b>G</b> Green	<b>BDLV</b> Blue 6" and 8"	<b>GDLV</b> Green							
<b>R</b> Red	<b>W</b> White 6" and 8"	<b>RDLV</b> Red	<b>WDLV</b> White 6" and 8"							
<b>Y</b> Yellow		<b>YDLV</b> Yellow								
<b>Power:</b>										
<b>48VAC</b> 48V AC	<b>AC</b> 95-265V AC	<b>DC</b> 11-30V DC								
<b>Mounting:</b>										
<b>2</b>	Wall, cable glands on bottom surface									
<b>3</b>	Suspension, cable glands on bottom surface									
<b>4</b>	Wall, cable glands on top surface									
<b>5</b>	Suspension, cable glands on top surface									

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