



EXNR-FUSION-LEM

Ethernet TCP/IP Serial Data 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
- Ethernet TCP/IP
- 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 that system.

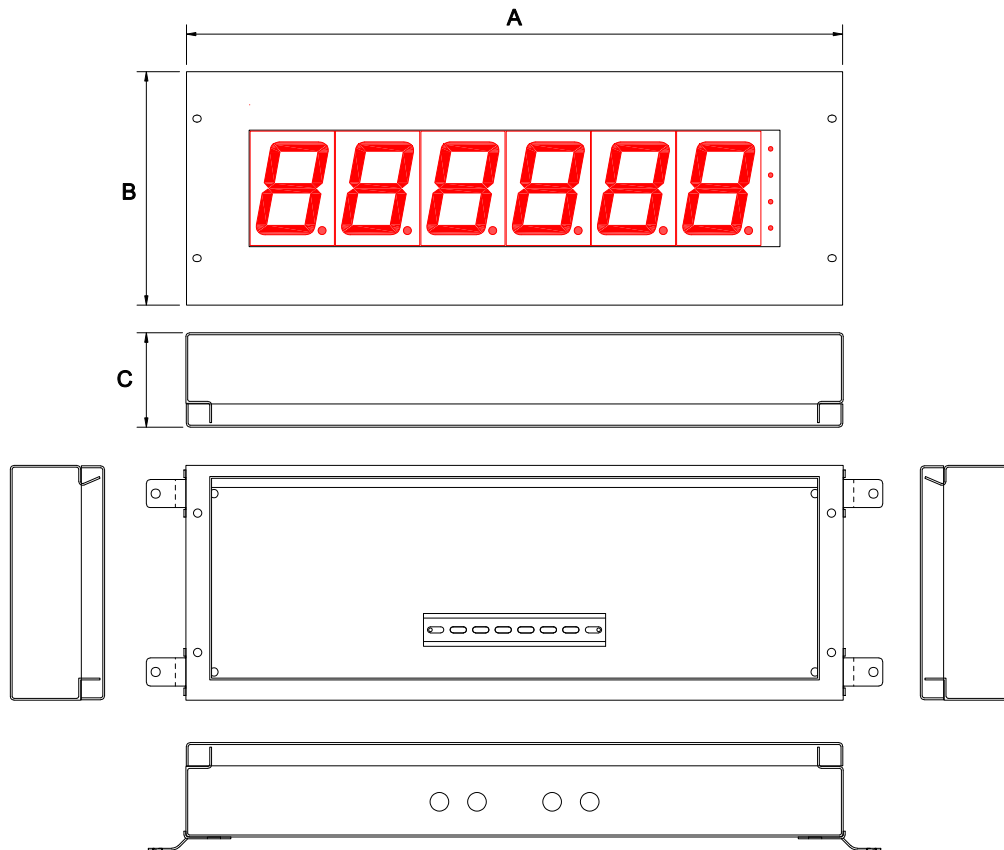
The EXNR enclosure is made from 316L stainless-steel and certified for use in ATEX zones 2 and 22.

The EXNR-FUSION-LEM is available as 4 or 6 digits and accepts RS485 serial data via Ethernet TCP/IP input, allowing remote access via your local TCP/IP Ethernet network. This is ideal for applications where the display may be located far from your PC or remote access is required. The display creates a 'Virtual Serial Port' on your computer, allowing you to use the standard application software for the RS485 device. You can then treat the device just as if it were connected directly to your PC.



DIMENSIONAL DRAWINGS

Wall or Suspension Mounting



DIMENSIONS (mm)

Model	Digit Format	Width (A)	Height (B)	Depth (C)
EXNR-24	2" 4 digit	350	225	100
EXNR-26	2" 6 digit	450	225	100
EXNR-44	4" 4 digit	525	250	100
EXNR-46	4" 6 digit	700	250	100
EXNR-64	6" 4 digit	625	350	100
EXNR-66	6" 6 digit	850	350	100
EXNR-84	8" 4 digit	800	400	100
EXNR-86	8" 6 digit	1125	400	100

Notes:

- i. E & OE

TECHNICAL DATA

Digit Height (inches)	2.2 (F2)	4.0 (F4)	5.9 (F6)	7.9 (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. or 8.8.8.8.8.8.			
Input Signal	Ethernet TCP/IP			
Ethernet Connection	Standard base 10/100 RJ45			
Digit Colour	Green, red or yellow. Blue and white available in 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	Brackets supplied for wall or suspension mounting			
Logic Inputs	3 x NPN or contact closure for TARE, PEAK/VALLEY and RESET			

Environmental

Enclosure Material	316L stainless-steel
Lens Material	Ploycarbonate, 6mm thick
Enclosure Certification (gas)	II 3 G EX nR IIC T6 Gc
Enclosure Certification (dust)	II 3 D Ex tc IIIC T85°C Dc IP66
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

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:		EXNR - X	X	- LEM	- X	- X	- X	- X	- X
2 2 inches (57mm)	4 4 inches (102mm)								
6 6 inches (150mm)	8 8 inches (200mm)								
Digit Format:									
4 8.8.8.8 - 4 digit, numeric format									
6 8.8.8.8.8.8 - 6 digit, numeric format									
Function / Input Type:									
LEM RS485 / Ethernet TCP/IP									
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 8"		BDLV Blue 6" and 8"							
G Green		GDLV Green							
R Red		RDLV Red							
W White 6" and 8"		WDLV White 6" and 8"							
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									

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