



## ALPHA<sup>®</sup> 420 NEMA 12

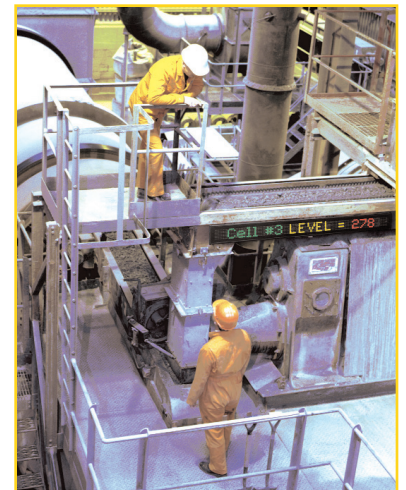
Introducing the ALPHA 420 NEMA 12 single line marquee. Built with your plant communication needs in mind, the ALPHA 420 is a 4" NEMA 12 tri-color message display. The 420 NEMA 12 ensures a highly visible display of real-time production data throughout your facility.

Keep production up and running. The 420 NEMA 12 provides maximum protection against windblown dust and splashing water around any of your industrial processes.

ALPHA displays can be addressed individually or collectively, and offer a wide variety of flexible connectivity options:

STANDARD: *Simple point-to-point RS232 communications*  
*Multi-drop RS485 connections*

OPTIONAL: *Wireless communications*  
*Modem solutions*  
*Ethernet LAN connections*  
*Industrial networks*



### Standard Features

- NEMA 12 enclosure withstands dust and splashing water
- Character size: 4 inches
- One year USA factory warranty
- Available in tri-color and red only (420C and 420R)
- Stores & displays over 80 messages
- 5 Operating speeds
- Keyboard programmable from 30 ft.
- 8 Brilliant colors & 3 rainbow effects
- 6 character fonts

# ALPHA® 420 NEMA 12 Specifications

Sizes	420 R/C
<b>Character Height:</b>	4 inches
<b>Characters Displayed: One-Line</b>	20
<b>Display Array:</b>	120 x 7 pixels
<b>Display Memory:</b>	28,000 Characters
<b>Display Dimensions:</b>	68.1"L x 4"H (173.2 cmL x 10.2 cmH)
<b>Case Dimensions: (With power supply)</b>	71.9"L x 5.6"D x 7.8"H (182.7 cmL x 14.2 cmD x 19.9 cmH)
<b>Approximate Weight:</b>	36.5 lbs. (16.6 kg.)

<b>Pixel Size (Diameter):</b>	0.36" (.92 cm)
<b>Pixel (LED) Color:</b>	8 bright colors and 3 rainbow effects (420R is red only)
<b>Center-to-Center Pixel Spacing (Pitch):</b>	0.57" (1.45 cm)
<b>Character Size (One-line format):</b>	4" (10.16 cm) /20 characters
<b>Character Set:</b>	International Character Set, Block (sans serif), decorative (serif), upper/lower case, slim, wide, double wide
<b>Memory Retention:</b>	2 weeks
<b>Message Capacity:</b>	81 different messages can be stored and displayed
<b>Message Operating Modes:</b>	<ul style="list-style-type: none"> <li>– 25 consisting of: Automode™, Hold, Roll (6 directions), Rotate, Sparkle-On, Twinkle, Interlock, Wipe (six directions) Spray-On, Slide Across, Starburst, Switch, Flash, Snow, Scroll</li> <li>– Continuous message entry with automatic centering in any mode</li> <li>– Five variable speed controls</li> </ul>
<b>Real-Time Clock:</b>	Date and time, 12, or 24-hour format, maintains accurate time without power for up to 14 days typical

<b>Serial Computer Interface:</b>	RS232 and RS485 (multi-drop networking for up to 255 displays)
<b>Power:</b>	100-240 VAC, 50/60 Hz ±10% Power and serial are field wired (no line cord)
<b>Keyboard:</b>	Handheld, Eurostyle, IR remote
<b>Case Material:</b>	Extruded aluminum
<b>Limited Warranty:</b>	One-year parts and labor, factory servicing
<b>Agency Approvals:</b>	Listed to ANSI/UL 1950-Third Edition (US) and CAN/CSA-22.2 No.950-M89 (Canada) Complies with EN 60950: 1992 (Europe) and AS/NZS 3260-1993 (Australia) – FCC Part 15 Class A – CE Marked
<b>Operating Temperature:</b>	32° to 140°F, 0° to 60°C
<b>Humidity Range:</b>	0% to 95% non-condensing
<b>Mounting:</b>	Hardware to accommodate ceiling, wall, or stack mounting methods
<b>Enclosure:</b>	Designed to NEMA 12 specification