



## ALPHA™ 420 NEMA 12

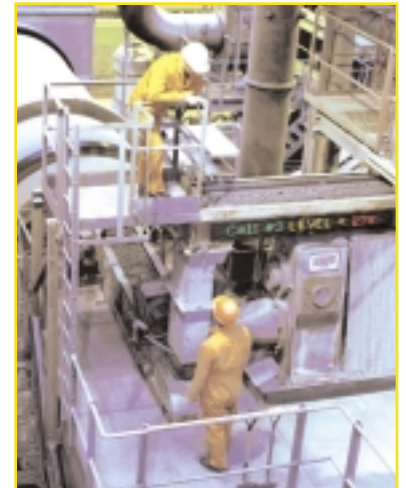
Introducing the ALPHA™ 420 NEMA 12 single line marquee. Built with your plant communication needs in mind. The lowest cost, 4" tri-color marquee available. The ALPHA 420 NEMA 12 ensures a highly visible display of real time production data throughout your facility.

Keep production up and running. The 420 Series 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
Character Height:	4 inches
Characters Displayed: One-Line	20
Display Array:	120 x 7 pixels
Display Memory:	28,000
Display Dimensions:	68.1"L x 4"H (173.2 cmL x 10.2 cmH)
Case Dimensions: (With power supply)	71.9"L x 5.6"D x 7.8"H (182.7 cmL x 14.2 cmD x 19.9 cmH)
Approximate Weight:	36.5 lbs. (16.6 kg.)

Pixel Size (Diameter):	0.36" (.92 cm)
Pixel (LED) Color:	8 bright colors and 3 rainbow effects (420R is red only)
Center-to-Center Pixel Spacing (Pitch):	0.57" (1.45 cm)
Character Size (One-line format):	4" (10.16 cm) /20 characters
Character Set:	International Character Set, Block (sans serif), decorative (serif), upper/lower case, slim, wide, double wide
Memory Retention:	2 weeks
Message Capacity:	81 different messages can be stored and displayed
Message Operating Modes:	<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>
Real-Time Clock:	Date and time, 12 or 24 hour format, maintains accurate time without power for up to 14 days typical

Serial Computer Interface:	RS232 and RS485 (multi-drop networking for up to 255 displays)
Power:	100-240 VAC, 50/60 Hz ±10% Power and serial are field wired (no line cord)
Keyboard:	Handheld, Eurostyle, IR remote
Case Material:	Extruded aluminum
Limited Warranty:	One-year parts and labor, factory servicing
Agency Approvals:	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
Operating Temperature:	32° to 140°F, 0° to 60°C
Humidity Range:	0% to 95% non-condensing
Mounting:	Hardware to accommodate ceiling, wall, or stack mounting methods
Enclosure:	Designed to Nema 12 specification