# ALPHA® 4000 NEMA 12

Focus on the process

When you focus on the process, you're focused on productivity & efficiency.  Our highly visible, Alpha® 4000 series NEMA 12 displays, ensure continued productivity & safety throughout your production facility.  From your desktop PC, your PLC or HMI system you can relay real time production data and manage quality assurance during the process.

Don't risk production coming to a screeching halt.  Our 4000 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: 2.1 - 4.8 inch*
- *Two models available*

- *One year USA factory warranty*
- *Stores & displays over 80 messages*
- *Flexibility of 1 or 2 line messages*
- *5 operating speeds*

- *Keyboard programmable from 30 ft.*
- *3 Brilliant colors & 3 rainbow effects*
- *6 character fonts*
- *Create your own graphics & logos*

ADAPTIVE®
*Adaptive Micro Systems LLC*

# ALPHA® 4000 NEMA 12 Specifications

| Sizes | 4120 R/C | 4240 R/C |
|---|---|---|
| Case Dimensions: (With power supply) | 40.4"L x5.6"D x 7.9"H (102.7 cmL x 20.0 cmD x 14.2 cmH ) | 76.4"L x 5.6"D x 7.9"H (194.2 cmL x 20.0 cmD x 14.2 cmH) |
| Approximate Weight: | 28 lbs. (12.7 kg.) | 50 lbs. (22.7 kg.) |
| Display Dimensions: | 36"L x 4.8"H (91.4 cmL x 12.2 cmH) | 72"L x 4.8"H (182.8 cmL x 12.2 cmH) |
| Display Array: | 120 x 16 pixels | 240 x 16 pixels |
| Characters Displayed per line (Minimum): One-Line Two-Line | 4.8" / 12 2.1" / 20 | 4.8" / 24 2.1" / 40 |
| Display Memory | 28,000 | 28,000 |

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|---|---|
| Pixel Size (Diameter): | 0.2" (.05 cm) |
| Pixel (LED) Color: | Each dot can be red, green, or amber (4120R and 4240R are red only) |
| Center-to-Center Pixel Spacing (Pitch): | 0.3" (0.8 cm) |
| Character Size (One-line format): (Two-line format): | 4.8" (12.2 cm) 2.1" (4.3 cm) |
| Character Set: | International Character Set, Block (sans serif), decorative (serif), upper/lower case, slim, wide, double wide |
| Memory Retention: | One month typical |
| Message Capacity: | 81 different messages can be stored and displayed |
| Message Operating Modes: | – 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 – Continuous message entry with automatic centering in any mode – User programmable logos and graphics – Five variable speed controls |
| Built-In Animations: | Cherry Bomb Exploding, Don't Drink and Drive, Fireworks, Slot Machine, No Smoking, Running Animal, Moving Auto, Welcome (in script), Thank You (in script) |

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|---|---|
| Real-Time Clock: | Date and time, 12 or 24 hour format, maintains accurate time without power for up to 30 days typical |
| Serial Computer Interface: | RS232 and RS485 (multi-drop networking for up to 255 displays) |
| Power: | 100-132 VAC, 60 Hz or 200-252 VAC, 50 Hz Autoranging input 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 – C€ 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 Equivalent IP rating:  IP52 |

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