

Sizes	96 x 16	128 x 16 Pixels	160 x 16 Pixels	192 x 16 Pixels
Case Dimensions: (With power supply)	49.7"L x 7.4"D x 12.5"H (126.2 cmL x 18.8 cmD x 31.8 cmH)	64.1"L x 7.4"D x 12.5"H (162.8 cmL x 18.8 cmD x 31.8 cmH)	78.5"L x 7.4"D x 12.5"H (199.4 cmL x 18.8 cmD x 31.8 cmH)	92.9"L x 7.4"D x 12.5"H (236.0 cmL x 18.8 cmD x 31.8 cmH)
Approximate Weight:	57 lbs. (25.9 kg.)	66 lbs. (30 kg.)	76 lbs. (34.5 kg.)	85 lbs. (38.6 kg.)
Display Dimensions:	43.2"L x 7.2"H (109.7 cmL x 18.3 cmH)	57.6"L x 7.2"H (146.3 cmL x 18.3 cmH)	72"L x 7.2"H (182.9 L x 18.3 cmH)	86.4"L x 7.2"H (219.5 L x 18.3 cmH)
Display Array	16 rows x 96 columns	16 rows x 128 columns	16 rows x 160 columns	16 rows x 192 columns
Characters Displayed in Two-Line Format (slim width)	32 min. 38 typical 48 max.	42 min. 50 typical 64 max.	52 min. 64 typical 80 max.	64 min. 76 typical 96 max.
Characters Displayed in One-Line Format	10	14	17	21

Display Memory: 27,000 characters typical

Pixel Size (Diameter): 0.2" (5 mm)

Pixel (LED) Color: Red version or Amber version available

Typical Forward 60,000 nits (candella per square meter)

Pixel Luminance: Each pixel is rated 3000 mcd typical

Peak Wavelength: Red = 654 nm
Amber = 594 nm

Angle Viewing: ±30° (60° cone) sunlight readable
±3.5° (7° cone) to 50% of straight-on brightness

Center-to-Center Pixel Spacing (Pitch): 0.45" (1.14 cm)

Character Size (two-line format): 3.15" (8 cm)

Character Size (one-line format): 7.2" (18.3 cm)

Character Fonts: 6 fonts for 7.2" characters
8 fonts for 3.15" characters
upper/lower case

Operating Temperature: -20°C to 55°C; -4° F to 131°F (cold start)

Memory Retention: One month typical

Message Capacity: 81 different messages can be stored and displayed

Message Operating Modes:

- 25 consisting of: Automode, hold, interlock, roll (6 directions), rotate, sparkle-on, twinkle, spray-on, slide across, switch, wipe (6 directions), starburst, flash, snow, scroll
- Continuous message entry with automatic centering in any mode-
- User programmable logos and graphics
- Five variable speed controls

Real-Time Clock: Day and time, 12 or 24 hour format, maintains accurate time without power for up to 30 days typical

Temperature Display: Optional remote temperature probe required

Serial Computer Interface: RS232 and RS485 (multi-drop networking for up to 255 displays; 32 displays without repeater)

Special Features:

- RS485 serial port
- RS232 serial port
- Infrared programmable (remote keyboard included)
- Optional remote temperature sensing probe assembly
- DIP switch selectable serial addressing
- Internal AC power switch for servicing
- Photocell dimming (customer adjustable)
- Five levels of brightness control
- Internal thermostatically controlled fans for cooling
- Automatic overheating protection
- Serially uploadable FLASH PROM memory
- Serially programmable relay (contact rating: 3 amps @ 250VAC, 3 amps @ 30VDC)

Communications: ALPHATM Communications Protocol compatibility

Power: 120 VAC ± 10% - 60 Hz
(230 VAC model also available)

Power Consumption: 3.5 amp max.

Keyboard: Handheld, Eurostyle, IR remote operated

Case Material: Extruded aluminum, outdoor NEMA-style, tamper-resistant case

Lens Material: Polycarbonate hard-coated lens

Limited Warranty: One-year parts and labor, factory servicing

Agency Approvals:

- 120 VAC model¹- FCC - class A emissions
- 230 VAC model¹ - CISPR 22B emissions
- EN50082 - 1 using IEC 801-2,3,4 immunity certified to EN60950
- ¹Both models - ETL listed to ANSI/UL1950 CAN/CSA 950 #22.2 M89

Patent: U.S. Pat. Des. 360,847

Standard Product - ALPHA Solar Electronic Display

Packaging Includes:

- IR Keyboard and Keyboard Programming Instructions
- Wall Mounting Kit
- Installation Instructions