

# QTERM-G55



Ethernet-Enabled Graphic Terminal  
with Object-Based Programming

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### FEATURES

- 320x240 pixels, lighted transmissive FSTN grayscale LCD display measuring 96 mm (3.8") diagonal. Optional TFT color display available.
- Handheld or panel-mount enclosure, or available as a module for tighter integration.
- 24- or 40-key steel-dome membrane keypad; optional lighted keypad.
- 4 or 5 programmable LEDs on keypad, plus shift and power LEDs.
- 10Base-T Ethernet option; supports TCP/IP, UDP/IP and other protocols
- Power-over-Ethernet (802.3af) option.
- Two serial ports (2nd optional). EIA-232, -422, -485 on either.
- NEMA-4 or -12 depending on configuration. NEMA 4 sealing for hose-down, icing and salt spray
- -20 to 60 °C operating temperature; consumes 210 mA @ 12 VDC.
- Powerful **Qlarity** object-based programming for easy application development.
- Windows® programming, simulation and debugging environment.
- Programmable speaker, optional audio (.wav) decoder, optional real-time clock.
- Manufacturer ID code protects your development investment.
- CE Certified. Tough ABS/polycarbonate case available in blue, gray or black with black molded rubber boot.
- Make the G55 your product with a custom key legend and company logo.



### HARDWARE

**DISPLAY:** The QTERM-G55 features a QVGA, 320x240 pixel, LCD transmissive FSTN, grayscale (16 shades) display or optional active-matrix TFT (256 colors) display.

Both displays use a light emitting diode (LED) backlight. The LED provides excellent readability under most lighting conditions and can operate in either portrait or landscape mode. The FSTN contrast is software-controlled and compensated for temperature. The transmissive display provides excellent sunlight or high ambient light readability. The backlight provides white lighting for high contrast and easy readability. Brightness of the backlight and FSTN contrast are controlled by software.

**KEYPAD:** User input occurs through a rugged 24-key or 40-key membrane keypad with steel domes. The top row of keys are commonly used as soft keys to navigate through a set of changing menus at the bottom of the display. The standard keypad comes with four or five LEDs under the soft keys that can be used as status or alarm indicators. Power and shift LEDs are included on both keypad configurations. The power button puts the terminal into a sleep mode.

The 40-key keypad allows for function / soft keys, eight-way directional control and numeric entry in the unshifted mode and alphanumeric data entry in the shifted mode. Keys can perform alternate functions when the shift key is enabled.

The standard keypad legends are shown in the image above.

A two-pole normally closed emergency stop (E-stop) switch is available as an option. The conductors for each pole (Pole 1 and Pole 2) of the switch are shorted until the switch is activated. After activation, each pole is an open circuit until the switch is reset. Units with the E-stop option may be equipped with a single serial port, Ethernet or Power-over-Ethernet.

**HOUSING:** The QTERM-G55 handheld is made of an ABS polycarbonate plastic with an overmolded rubber boot for comfort and shock protection. The case meets NEMA-12 standards and can optionally be configured to meet NEMA-4 specifications for hose-down, icing and salt spray. See Figure 3 for dimensions.