

QTERM-G58

Ultra-Rugged, Handheld Graphic Human Machine Interface with Touch Screen, Battery and Optional Wireless



- 320x240 Color transreflective sunlight-readable TFT LCD
- Analog resistive touch screen
- Rugged handheld ABS/polycarbonate case with elastomer overmold
- 24- or 40-key steel-dome membrane keypad; optional lighted keypad
- 4 or 5 programmable LEDs on keypad, plus shift and power LEDs
- Serial port software-configurable EIA-232, -422, -485
- USB device for access to 256 MB NAND mass storage
- 802.11b/g wireless Ethernet
- Memory - 16 MB SDRAM, 4 MB NOR flash, 256MB NAND flash
- NEMA-4
- 8 - 32 VDC input
- Battery- internal lithium-polymer rechargeable, 10+ hours active life
- Powerful Qlarity® object-based programming for easy application development
- Windows® programming, simulation and debugging environment
- -20 to 60 °C operating temperature (-20 to 55 °C with 802.11 b/g option)
- Realtime clock
- Programmable speaker and .wav audio decoder (optional)
- CE Certified
- RoHS Compliant
- Customizable logo and keypad (optional)

QTERM-G58- The Ultra-rugged Handheld HMI Terminal

The QTERM®-G58 is an ultra-rugged handheld human machine terminal with a 89 mm (3.5") color sunlight readable touch screen display. It is battery powered and includes serial, USB and optional 802.11b/g.

Our rigorous engineering and qualification testing makes this unit suitable for mobile and handheld applications in the oil and gas, utilities, process control, agriculture, forestry and manufacturing industries.

User input occurs through the analog resistive touch screen display as well as a rugged 24- or 40-key membrane keypad with steel domes. The standard keypad comes with four or five LEDs

below the soft keys that can be used as status or alarm indicators. The standard keypad legends can be customized specifically for your application and with your logo.

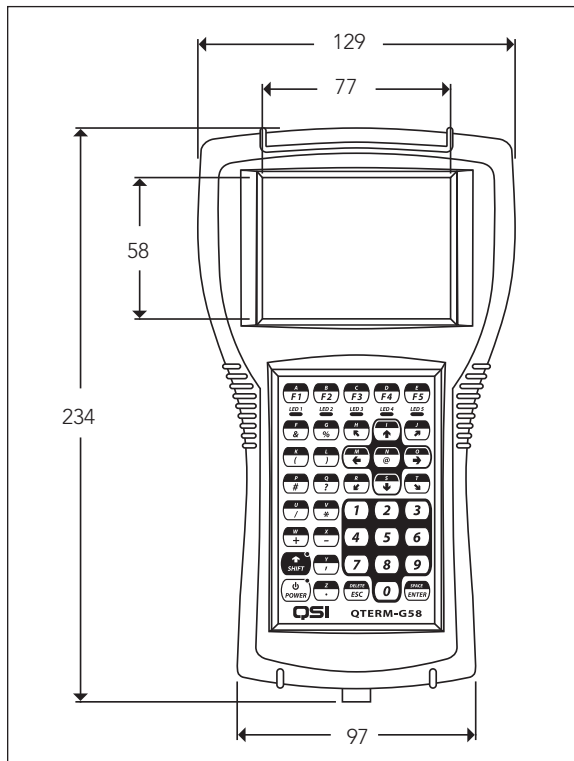
Robust object-based programming with Qlarity® allows fast screen design and integration with your system requirements. Programming can be started immediately by downloading Qlarity Foundry® free from our website. QSI has brought its design and manufacturing expertise to customers worldwide for over 25 years. QSI Corporation is located at 2212 South West Temple #50, Salt Lake City, Utah 84115.

QTERM-G58 Specifications

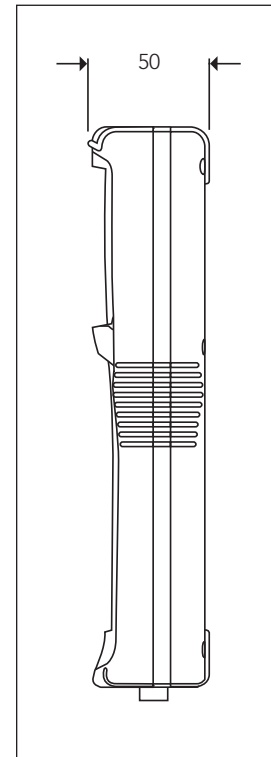
Feature	Detail	Description	
Display	Color	320x240 Color transfective sunlight readable TFT LCD with Touch Screen	
	Color depth	262,144 colors (limited to 256 colors by Qlarity)	
	Size / Dot Pitch	89 mm (3.5") diagonal/0.2235 mm	
	Lighting	LED 200 cd/m ² typical. Brightness is software-controllable	
Touch Screen	Type	4-Wire analog resistive	
Keypad	Number of keys	24-key standard, 40-key optional	
	Construction	Steel snap domes in membrane, 4 or 5 programmable LEDs, Power and Shift LEDs	
	Lighting (optional)	Electroluminescent	
	Legend customization (optional)	Prototype and custom legends are available	
Interface	Serial multiport (optional)	Software-configurable EIA-232/422/485 serial multiprotocol port	
	Baud rates	600, 1200, 2400, 4800, 9600, 14400, 19200, 38400, 57600, 115200	
	Data formats	8n1, 8e1, 8o1, 8n2, 7e1, 7o1, 7n2, 7e2, 7o2	
	Connector	Hirose HR30 12-pin sealed push-lock circular connector	
	USB device	USB 2.0 full speed device port for mass storage access	
Memory	Flash	4 MB NOR	
	RAM	16 MB SDRAM, 256 MB internal NAND flash for mass storage	
Wireless	802.11 b/g	Dual Antenna	
	Authentication	WEP, WPA, WP2	
	Encryption	WEP, PSK-TKIP, PSK-AES	
	Modes	Infrastructure, Ad-hoc	
Audio	Beep	Standard beep, software controllable in duration and pitch	
	Speaker	Sealed 1 W 8 Ω speaker, 83 dB nominal at 100 mm, 1 W input power	
	Audio decoder (optional)	Single channel digital decoder for .wav files	
Housing	Handheld	ABS polycarbonate. Available in blue, gray or black with black overmolded elastomer boot	
	UL	HB flame rating	
	Size	129x234x50 mm	
	Mass	665 g	
Environmental	Sealing	NEMA-4	
	Temperature	Operating	-20 to 60 °C (802.11 b/g option -20 to 55 °C)
		Storage	-30 to 70 °C
	Humidity	0 to 95%, non-condensing	
	Vibration	5 to 2000 Hz, 4 g RMS	
	Shock / Drop	40 g, 11 ms, any axis / 1.5 m onto concrete	
Certifications	CE (EN60950, EN55022, EN55024), FCC Part 15, Subpart B, ICES-003		
Processor	Type	Atmel ARM9 200 Mhz	
Realtime clock	Standard	Standard, battery-backed, 1 second resolution	
Power	Standard	8 to 32 VDC. Power switch on membrane keypad for full shutdown	
	Battery power	Internal Lithium-polymer rechargeable battery pack	
	Battery life	10+ hours active life, 3 hours recharge time	
Software	Terminal operating system	Qlarity® – Object-based programming language	
	Development environment	Qlarity Foundry® – Windows® design environment	
Accessories	Cables, etc. (sold separately)	Cable, HR30 to Blank, 3 m or 10 m. Programming Cable, HR30 to USB Type A plug, 2 m. Battery charging cable, 120 volt AC or 12 volt C vehicle lighter plug. Holster	

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QTERM-G58 Dimensions (mm)



Front View



Side View with Battery and/or WiFi

QTERM-G58 housing dimensions shown in mm.