

Proven, reliable and easy to use

- Flexible configurations to meet customer applications
- Real-time display of alarms
- Remote monitoring and configuration
- Reliability by design

Product Summary

Description An intelligent system for alarm management and discrete event monitoring Application Enables alarm monitoring and post events analysis for a wide range of applications in transmission, generation and industrial processes. Concise display of current state in real time. Enables easy identification and analysis resulting in quick problem resolution





QNet4100 Alarm and event management system

Proven, reliable and easy to use	Designed to set the new industry standards for reliability and simplicity	
Flexible configurations to meet customer applications	 The QNet4100 is based on a design which is modular and scalable to support up to 4096 points. The chassis can be grouped together at single or multiple locations. Units are connected via duplex fiber optic interconnecting cables. The inputs can be grouped, filtered and routed to a variety of output annunciators per customers application 	
Real-time display of alarms	 The QNet4100 system ensures real-time monitoring of events with time accuracy of 1 millisecond. Early detection and accurate diagnostics is crucial to reduce outages and their associated costs. The real time display of alarms accurately represents the current plant conditions 	
Remote monitoring and configuration	 Secure web interface provides reports on current system state and archived historical alarm and event information. Users with assigned access control can download current system configuration, configure initial setup or make necessary changes 	
Reliability by design	• The QNet4100 system is designed to meet stringent industry standards of reliability meeting the requirements of most critical applications. Full compliance to IEC 60255-1 to ensure that no records are missing. The system performs functional and self tests to each input point and provides input to output isolation with optional input to input isolation. For ultimate reliability, QNet4100 supports single, redundant and fully redundant annunciator logic	
	Extensive self diagnostics capability with built in monitoring for 230 event conditions	
Multiple time synchronization and high stability clock	 Multiple external time synchronization methods are supported by the system including latest industry specifications. The hardware supports accurate time stamping of events with 1 ms resolution 	
Multiple and simultaneous communication methods	 Through its multiple communication methods, QNet4100 provides timely information where it is needed. Five serial ports and two Ethernet ports are available enabling serial and NTP communications. The communications are supported to annunciators, <i>AdviSER</i>[™] display, web interface, printers and modems. Built in support for DNP3 protocol 	





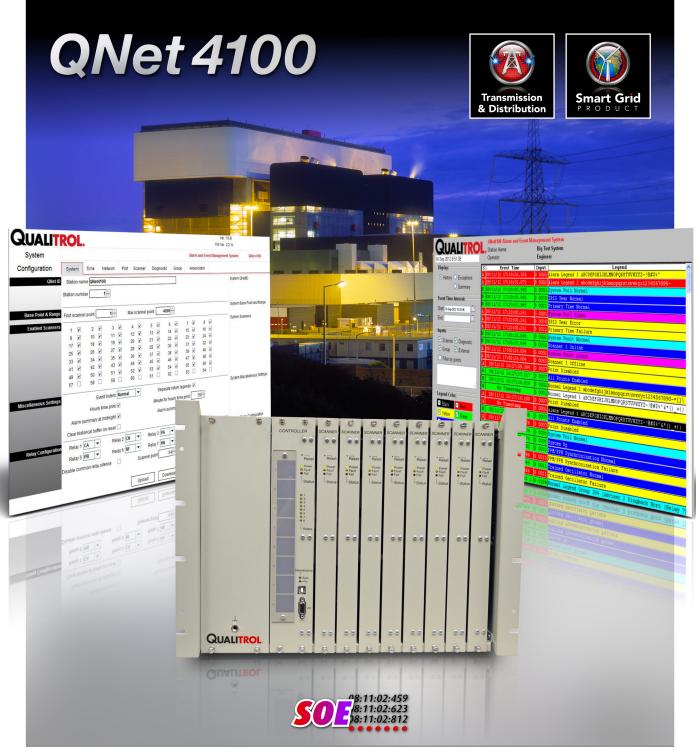


TECHNICAL SPECIFICATIONS

Power supply	Input power	90 - 250 VAC, 50/60Hz. 90 - 350 VDC. 48 VDC. 24 VDC
	Field contact	250 VDC. 125 VDC. 48 VDC. 24 VDC
Performance	Processor	400MHz, 64 bit
	Point capability	64 - 4096
	Historical memory capability	100,000 events
	Battery backup	(Clock and event history). Manganese lithium rechargeable
	Backup time	90 days
	Self diagnostics alarms	230
	Alarm grouping	Boolean engine Alarm filtering
Ports	Maintenance (110 - 230 kbaud)	RS232. USB
	Serial (110 - 230 kbaud)	5 programmable. 1 over fiber ST, SMA, and SC (optional)
	IRIG-B	Modulated. Unmodulated Fiber optic (optional)
	Ethernet	2 x 10/100BASE-T
Indicators	LEDs	8 programmable relays. 1 watchdog, 1 fault, 1 power
Clock	Standard stability	20 ppm
	High stability	0.1ppm (optional)
Time synchronization	External	Primary backup
	Pulse	1 PPH. 1 PPM. 1 PPS (via T1 port)
	IRIG-B	IRIG 200-04 (2004)
	NMEA 0183	Via RS-232 port
	NTP	Via Ethernet port
	System time	UTC with localization for displays
Devices	Operator console	English
	Printer	Serial
	Modems	Serial
	Alarm Annunciator displays	Serial
Protocols	Communications	BPA DNP3 DNP3 Slave (serial) DNP3 Slave (Ethernet)
Mechanical	Enclosure	8U, 19" rack mountable chassis
	Dimensions (H x W x D)	352.4 mm x 482.6 mm x 406.4 mm (13.87" x 19" x 16")*
*Other mechanical options available	Weight	Approx. 13.6 kg (30 lbs)

QNet4100... ultimate reliability by design





About QUALITROL®

Established in 1945, with continual improvement at the core of our business, QUALITROL[®] provides smart utility asset condition monitoring across the globe. We are the largest and most trusted global leader for partial discharge monitoring, asset protection equipment and information products across generation, transmission and distribution. At QUALITROL[®] we are redefining condition monitoring technology for Electric utilities assets.

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Email: info@qualitrolcorp.com www.qualitrolcorp.com