Intelligent Control Module

TCP/IP Controller for ICT Modular Power Series

The ICT Intelligent Control Module is a factory installed option for the ICT Modular Power Series that provides TCP/IP monitoring and control of the system. When used with the optional Battery Management Module, it provides advanced battery reporting and management features, including estimated state of charge and run time remaining, battery discharge testing, and low voltage disconnect control and reporting. When used with the optional Load Distribution Module, it provides reporting of individual load current levels, remote power cycling of connected loads, automatic load shedding, and network watchdog (ping) features.

▶ Complete local and remote monitoring and control of up to eight Modular Power System components

▶ TCP/IP with embedded web browser for instant set up and ease of use

▶ SNMP for network management integration

▶ Advanced battery management and load distribution features when combined with optional Battery Management and Load Distribution Modules

▶ Environmental alarm sensor inputs allow site monitoring and remote alarm reporting without the need for a separate site monitoring system

USER INTERFACE

Local	128 x 64 OLED high resolution display
	4 scroll/input buttons
Ethernet	10/100 BASE-T, IEEE 802.3 compatible
	Embedded web-based GUI accessed using Internet browser
	IP Protocols: IPv4, HTTP, HTTPS, SMTP, DNS, TCP, UDP, ICMP, DHCP, ARP, SNMP v1/v2c/v3
	Security: AES/RC4 HTTPS Encryption, TLS 1.0 protocol

ALARM NOTIFICATIONS

Email	SMTP via Ethernet (up to two addresses)
SNMP	v1/v2/v3 via Ethernet
Alarm Relays	Form C contacts

CONTOLLER INPUTS/OUTPUTS

Digital Inputs	4 digital inputs for voltage-free site monitoring sensors (configurable NO/NC)
Temp Sense Input	1 x analog temperature sensor input (for ICT-TMP probe with 3m cable)
Ethernet	1 x RJ45 10/100 BASE-T
Form C	C/NO/NC

ENVIRONMENTAL

Operating Temperature Range	-30C TO +60C

FEATURES

System Management:
▶ Local and remote password protection
▶ Downloadable firmware updates over Ethernet
▶ AC input voltage, DC output voltage, system current reporting (local and Ethernet)
▶ Local and remote output voltage and current limit adjustment
▶ Monitoring and control of Master power shelf and accessories and second slaved power shelf
▶ Up to 30 days logging at 1 minute sampling rate, csv file download, major event logging
▶ Remote on/off Power Module control
▶ Site monitoring inputs for door, smoke, water and temperature sensors with remote alarm notifications
▶ Runsafe mode in event of controller failure (system will revert to factory default output settings)

Power Modules:
▶ Module output current and voltage status and monitoring
▶ Local and remote alarms reporting

Battery Management: (when used with optional Battery Management Module)
▶ Temperature compensated charging
▶ Manual, automatic and periodic equalization
▶ Battery State of Charge and estimated runtime remaining indication
▶ Battery low warning
▶ Auto or manual battery test modes
▶ User definable low voltage disconnect and reconnect setpoints

Load Management: (when used with optional Load Distribution Module)
▶ Display current reading of each of four load outputs
▶ Remote on/off control of individual outputs or entire load bus over Ethernet
▶ User definable alarm level indications (sent via Form C and Ethernet)
▶ User-definable load disconnect and reconnect levels
▶ Definable automatic load shedding
▶ Auto-ping automatic power cycling of specified load outputs
▶ Power-up delay sequencing

Innovative Circuit Technology Ltd.
26921 Gloucester Way, Langley, BC, Canada   V4W 3Y3
Tel: 604-856-6303 l Fax: 604-856-6365 l Email: sales@ictcorporate.com l www.ict-power.com