

PowerLogic® EPSS Test Reporting For Healthcare



Emergency Power Supply System (EPSS)

Remote EPSS Testing and Monitoring can be accomplished via EPSS graphical interface diagrams to depict or mimic facility EPSS electrical distribution single line drawings on your computer screen. Generators and automatic transfer switch(ATS) status along with monitored real-time values are displayed for reporting, system diagnostics and operation of the EPSS. As an option, remote control of the EPSS test can also be accomplished through the graphical interface.

ABC Hospital EPSS INFORMATION

GEN #1 (RUNNING): 479 V, 947 A, 716 kW, 38%, 27 min
GEN #2 (RUNNING): 478 V, 931 A, 704 kW, 36%, 15 min
GEN #3 (STOPPED): 0 V, 0 A, 0 kW, 0%, 0 min

480/277V, 3P, 4W

ATS - 1 to ATS - 8 (US10)

ATS STATUS: NORMAL

ABC Hospital GENERATOR INFORMATION

EXH RIGHT		EXH LEFT		OIL PRESS		COOL TEMP		AMB TEMP		HUMIDITY	
	779 F		771 F		66 psi		179 F		179 F		40 %
TANK 1(GAL)	147	TANK 1(IN)	14								

CURRENT (AMPS)		VOLTAGE (VOLTS)		POWER FACTOR(%)	
PHASE A	933.25A	PHASE A-N	276V	PHASE A	.93Pf
PHASE B	947.03A	PHASE B-N	276V	PHASE B	.93Pf
PHASE C	904.72A	PHASE C-N	276V	PHASE C	.93Pf
3-PH. AVG	915.21A	PHASE A-B	481V		
FREQ	60.03	PHASE B-C	481V		
		PHASE C-A	481V		

REAL POWER (kW)		APPARENT POWER (Kva)	
PHASE A	721kW	PHASE A	724kVA
PHASE B	734kW	PHASE B	740kVA
PHASE C	704kW	PHASE C	715kVA
TOTAL	701kW	TOTAL	754kVA

Links provide retail time detailed information to specific EPSS equipment such as generator engine parameters. Additionally, these parameters are automatically collected and incorporated into the EPSS Test Report.



PowerLogic Monitoring & Reporting For Healthcare Facilities

EPSS Test Report System Selection Guide

Monitoring & Reporting Levels (Note 1)		EPSS -1 Essential	EPSS -2 Enhanced	EPSS -3 Comprehensive
Features				
ATS	ATS Status (Time/Date Stamp)	■	■	■
	ATS Monitoring / Logging / Trending		■	■
	ATS Monitoring Hardware	ATS Status Panel	PM850 (Std) / PM870 (Opt)	PM870 (Std) / CM4250 (Opt)
GEN SET	Gen Set Monitoring / Logging / Trending	■	■	■
	Generator Main Metering	PM870 (Std) / CM4250 (Opt)	CM4250 (Std) / CM4000T(Opt)	CM4000T
	Gen Engine Monitoring / Logging / Trending (Note 2)	■	■	■
EPSS TEST	EPSS Test Reports (Note 3)	■	■	■
	Pass/Fail EPSS Test Indication	■	■	■
	Web-based Graphical Screens for Remote Test monitoring (Note 4)	■	■	■
	Remote Initiation of EPSS Test Start from PC (Note 5)	□	□	□
	Full Supervisory Testing Controls (Note 6)			□
POWER MONITORING	Real-time Tables/ Charts	■	■	■
	Event Capture / Alarming	■	■	■
	Advanced PQ Analysis-ATS		w/ PM870 Opt	■
	Advanced PQ Analysis-GEN		■	w/ CM4250 Opt
	Disturbance Sag/Swell-ATS	■	w/ PM870 Opt	■
	Disturbance Sag/Swell-GEN		■	■
	Transient Capture-GEN		w/CM400T Opt	■
	Utility Service Metering	□	□	□

Key: Standard feature ■
Optional service/product available □

Notes:

- (1) Power Monitoring and EPSS Test Reporting features are directly dependent upon metering hardware selected for ATS and Generator. EPSS-1 provides ATS status indication only, EPSS-2 and EPSS-3 include additional metering, logging and trending.
- (2) Automatic collection of Generator Engine Monitoring data is dependent upon type of controller and communications available on gen set. Gen Engine data can also be manually entered by technician performing the test.
- (3) EPSS Test Reports based upon NFPA 110, Chapter 8, JCAHO EC7.40-2006 and will produce a Joint Commission compliant automated test report. For use with PowerLogic System Manager Software only.
- (4) Custom graphic screens may be ordered with PowerLogic system or developed by the customer using Interactive Graphics Module (GFX - included with System Manager software).
- (5) Remote EPSS Test Start Option may be selected if remote contacts are available on ATS.
- (6) Full Supervisory Testing control is only available on EPSS-3 Comprehensive level and must be specified with proper operating procedures (See EPSS - CSI Specification Number: 26 09 13.52).

System Requirements:

System Manager Software plus EPSS Reporting Module

ATS Status Panel

Provides position status of ATS including time/date stamping of transfer times and optional remote graphical testing (if contacts available at ATS)



ATS Monitoring Panel

Includes all of the Status functions of the ATS Status Panel plus metering & monitoring capabilities including: Voltage (L-L, L-N), Current – 3PH, kW, kWh, alarm/event logging, and waveform capture.



Generator Monitoring Panel

Provides status of generator including run times, % loading and pass/fail status. Minimum metered values of the generator include: Voltage (L-L, L-N), output current – 3 PH, PF, Frequency, kW, & kVA. Monitored engine generator parameters can include: Exhaust temperatures, Oil Pressure, water temperature, and battery/charger values.



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