

UL508A COGEN CONTROLS

WATER & SEWER FACILITY

SOLUTIONS | 49283



UL508A COGEN CONTROL PANEL

Water and Sewer Cogen Facility

Control panel lineup consisting of 10 bayed cubicles of Rittal TS8 NEMA 12 modular cabinets, overall dimensions of complete lineup approximately 87"H x 207"W x 24"D. Each cabinet has a full length single door with locking handle and painted ANSI 61 light gray.

GENERATOR CONTROL PANEL SECTIONS (QUANTITY 6) TYPICAL:

- Woodward 2301E governor
- Woodward DSLC-2 Synchronizing and Load controller
- Varmeter 4.5" analog
- Watt Meter 4.5" analog
- Voltmeter 4.5" analog
- Voltmeter switchboard type selector switch, 4-position
- Ammeter 4.5" analog
- Ammeter switchboard type selector switch, 4-position
- Auto/Manual selector switch, switchboard type, 2-position maintained
- Circuit breaker control, switchboard type switch, OPEN/CLOSE positions
- Generator load control switch, switchboard type, pistol grip, 3-position spring return to center from left and right
- 86 lockout relay, 24VDC coil, with orange tripped target indicator
- 30mm NEMA 4X circuit breaker position indicator lights, push to test, open(green), closed(red), tripped(amber)
- 30mm NEMA 4X circuit breaker cell position indicator light, push to test, withdrawn(white)
- Synchronizing Switch with Removable Handle
- Voltage Raise/Lower control switch, switchboard type, 3-position spring return to center from left and right
- 30mm NEMA 4X generator start pushbutton, black flush head operator
- Fault Reset pushbutton, black flush head operator

MAIN AND TIE CONTROL PANEL SECTIONS (QUANTITY 2) TYPICAL:

- Solid state digital multi-function metering device which includes:
 - LCD Display
 - Ethernet port configured for Modbus TCP/IP
 - RS-485 Modbus RTU serial port
 - Transducer option, four isolated 4-20mA DC analog outputs
 - Four programmable relay outputs
 - Power analysis, harmonics option
 - 8MB of non-volatile memory for storage of waveform, event, and log files
 - Compatible with existing Siemens WinPM.net software
- Auto/Manual selector switch, switchboard type, 2-position maintained
- Circuit breaker control, switchboard type switch (quantity 3), OPEN/CLOSE positions
- 86 lockout relay (quantity 2), 24VDC coil, with orange tripped target indicator
- 30mm NEMA 4X circuit breaker position indicator lights (quantity 2 sets), push to test, open(green), closed(red), tripped(amber)
- 30mm NEMA 4X circuit breaker cell position indicator light (quantity 2), push to test, withdrawn(white)
- Synchronizing Switch with Removable Handle (2- for main circuit breakers and 2- for tie circuit breakers)

SWING PANEL (SHIPPED LOOSE FOR SITE MOUNTING TO TOP OF CONTROL LINE-UP)

- Dual swing synchronizing display panel to include the following:
 - Incoming Voltmeter
 - Incoming Frequency Meter
 - Running Voltmeter
 - Running Frequency Meter
 - 4.5" Synchroscope 120V Analog
 - (2) Synchronizing Indicating Lights
 - Synchronizing Switch w/Removable Handle



ADDITIONAL EQUIPMENT FOR INSTALLATION OUTSIDE OF CO-GEN CONTROL PANEL:

- 17" HMI touchscreen mimic panel to be mounted in the existing control panel in the Operator Room. Include all the functions of the Co-Gen Control Panel touchscreens.