

OTEC Transfer Switch Control Quick Reference Card

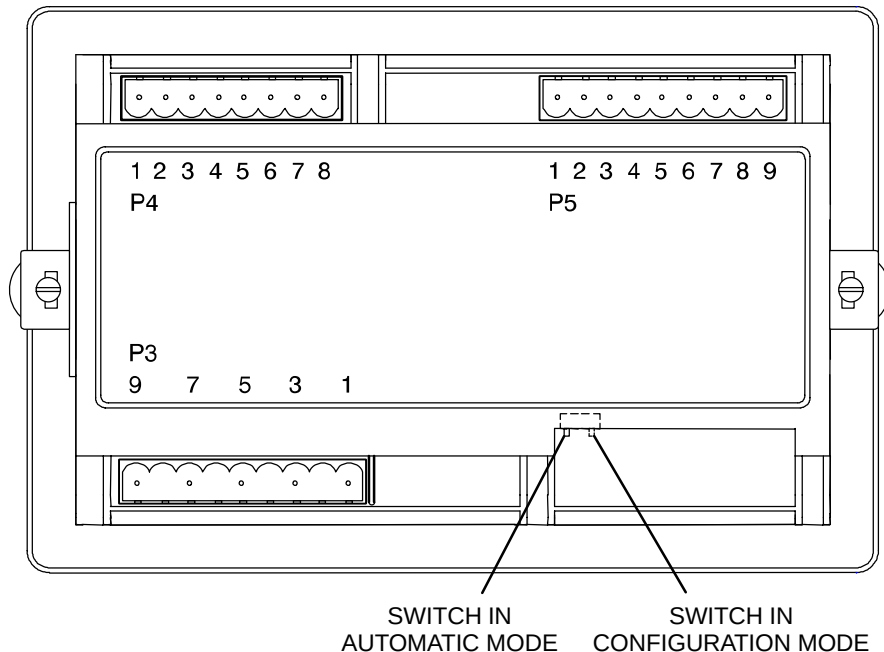
To modify the control function settings:

⚠ WARNING *AC power within the cabinet and the rear side of the cabinet door presents a shock hazard that can cause severe personal injury or death. Use extreme caution to avoid touching electrical contacts whenever the cabinet door is open.*

1. Open the transfer switch door.
2. Slide the selector switch to the **Configuration Mode** position on the back of the control panel (see the illustration below).

NOTE: **Configuration Mode** can be entered at any time, but once it is selected, all automatic operation is suspended.

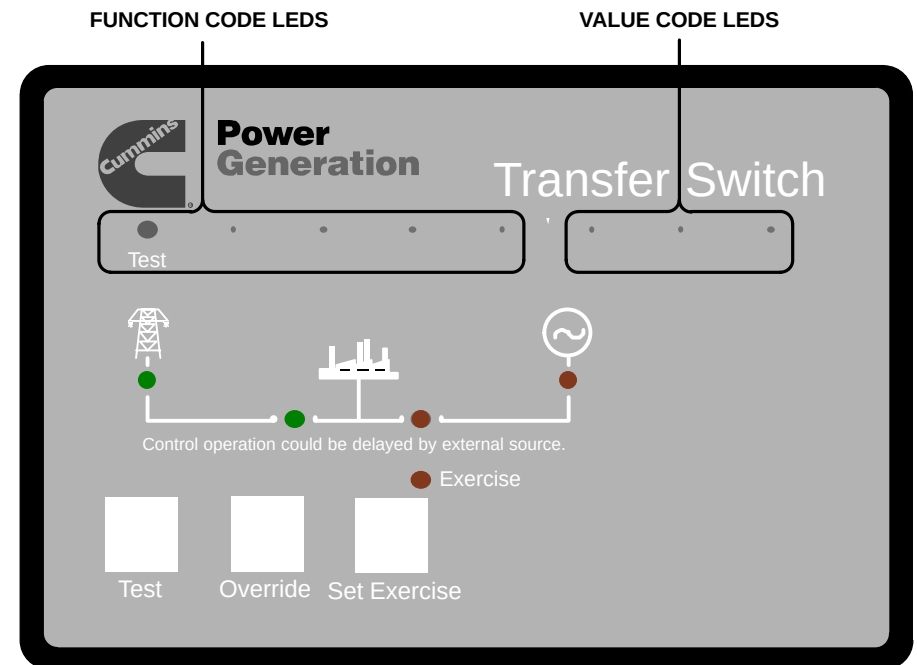
3. Press the **Test** pushbutton to scroll through the various control function codes displayed with the first five LEDs. TDES is always the first function shown.
4. Once the desired function is selected, press the **Override** pushbutton to change the associated value code displayed with the last three LEDs.
5. When configuration is completed, slide the selector switch back to the **Automatic Mode** position.



OTEC control functions can be configured using the control panel. The inside of this card shows the settings available for each control function. Default settings are shown in bold *italics*. The black-filled circles indicate which LEDs are lit for the function and value codes listed. Additional information on these functions is included in the OTEC Operator's Manual.

⚠ CAUTION *Incorrect settings can result in the transfer switch failing to operate correctly. Only authorized trained personnel should make changes to the control function settings. External Exercise, System Nominal Voltage, System Nominal Frequency, and Single Phase/Three Phase settings are made at the factory and should not require any additional adjustments.*

The control panel has a series of eight LEDs that display codes indicating various control functions. The first five LEDs display the function code and the last three LEDs display the value code for the displayed function (see the illustration below). Information on how to modify control function settings is included on the back of this card.



FUNCTION	FUNCTION CODE	VALUE CODE	VALUE (Default in bold italics)
Not Available	○ ○ ○ ○ ○	NA NA NA	
TDES (Time Delay Engine Start)	○ ○ ○ ○ ●	○ ○ ○	0 Seconds (Disabled)
		○ ○ ●	0.5 Second
		○ ● ○	1 Second
		○ ● ●	2 Seconds
		● ○ ○	3 Seconds
		● ○ ●	4 Seconds
		● ● ○	6 Seconds
		● ● ●	10 Seconds
TDNE (Time Delay Normal to Emergency)	○ ○ ○ ● ○	○ ○ ○	0 Seconds (Disabled)
		○ ○ ●	1 Second
		○ ● ○	2 Seconds
		○ ● ●	3 Seconds
		● ○ ○	5 Seconds
		● ○ ●	30 Seconds
		● ● ○	120 Seconds
		● ● ●	300 Seconds
TDEN (Time Delay Emergency to Normal)	○ ○ ○ ● ●	○ ○ ○	0 Minutes (Disabled)
		○ ○ ●	0.1 Minutes (For Testing)
		○ ● ○	5 Minutes
		○ ● ●	10 Minutes
		● ○ ○	15 Minutes
		● ○ ●	20 Minutes
		● ● ○	25 Minutes
		● ● ●	30 Minutes
TDEC (Time Delay Engine Cooldown)	○ ○ ● ○ ○	○ ○ ○	0 Minutes (Disabled)
		○ ○ ●	0.1 Minutes (For Testing)
		○ ● ○	5 Minutes
		○ ● ●	10 Minutes
		● ○ ○	15 Minutes
		● ○ ●	20 Minutes
		● ● ○	25 Minutes
		● ● ●	30 Minutes
TDPT (Time Delay Program Transition)	○ ○ ● ○ ●	○ ○ ○	0 Seconds (Disabled)
		○ ○ ●	0.5 Second
		○ ● ○	1 Second
		○ ● ●	2 Seconds
		● ○ ○	3 Seconds
		● ○ ●	4 Seconds
		● ● ○	6 Seconds
		● ● ●	10 Seconds

 = THESE CONTROL FUNCTIONS ARE SET AT THE FACTORY AND SHOULD NOT REQUIRE ADJUSTING.

FUNCTION	FUNCTION CODE	VALUE CODE	VALUE (Default in bold italics)
TDEL (Time Delay Elevator Signal)	○ ○ ● ● ○	○ ○ ○	0 Seconds (Disabled)
		○ ○ ●	1 Second
		○ ● ○	2 Seconds
		○ ● ●	3 Seconds
		● ○ ○	5 Seconds
		● ○ ●	30 Seconds
		● ● ○	120 Seconds
		● ● ●	300 Seconds
Test With/Without Load	○ ○ ● ● ●	○ ○ ○	Without Load
		○ ○ ●	With Load
External Exercise On/Off	○ ● ○ ○ ○	○ ○ ○	Off
		○ ○ ●	On
Exercise With/Without Load	○ ● ○ ○ ●	○ ○ ○	Without Load
		○ ○ ●	With Load
System Nominal Voltage Table Selection	○ ● ○ ● ○	○ ○ ○	Table 1 ↓
		○ ○ ●	Table 2 ↓
System Nominal Voltage	○ ● ○ ● ●	○ ○ ○	115
		○ ○ ●	120
		○ ● ○	190
		○ ● ●	208
		● ○ ○	220
		● ○ ●	230
		● ● ○	240
		● ● ●	380
			600
System Nominal Frequency 50/60 Hz	○ ● ● ○ ○	○ ○ ○	60 Hz
		○ ○ ●	50 Hz
Single Phase/Three Phase	○ ● ● ○ ●	○ ○ ○	Three Phase
		○ ○ ●	Single Phase
Utility Undervoltage Pickup	○ ● ● ● ○	○ ○ ○	90%
		○ ○ ●	95%
Utility Undervoltage Dropout	○ ● ● ● ●	○ ○ ○	90%
		○ ○ ●	85%
		○ ● ○	80%
		○ ● ●	70%
Phase Check On/Off	● ○ ○ ○ ○	○ ○ ○	Off
		○ ○ ●	On
Return to Programmed Transition On/Off	● ○ ○ ○ ●	○ ○ ○	Off
		○ ○ ●	On
Elevator Post Transfer Delay On/Off	● ○ ○ ● ○	○ ○ ○	Off
		○ ○ ●	On
Exercise Repeat Interval	● ○ ○ ● ●	○ ○ ○	Every 7 Days
		○ ○ ●	Every 14 Days
		○ ● ○	Every 21 Days
		○ ● ●	Every 28 Days