



## APPLICATION NOTE 700198C

### FIELD CONVERSION OF EN1000 CASCADE TO EN1001 CASCADE

To convert an EN1000 Cascade Control to an EN1001 Cascade **requires** an **EN1001 Cascade Control Panel, Program Board and a Current Sensor**. Select the type of current sensor desired and the voltage of the control.

CHOOSE THE VOLTAGE AND TYPE OF SENSING COIL REQUIRED							
COIL	SENSING	460V	230V	XTOR RATING	230VAC CONTROL BUILT BEFORE 2/7/03	460VAC CONTROL BUILT BEFORE 2/7/03	ANY VOLTAGE BUILT AFTER 2/7/03
P2	Primary Coil	Up To 50KVA	Up To 25KVA	To 300A	600702-001	600702-006	600702-011
P5	Primary Coil	Up To 250KVA	Up To 125KVA	300/600/ 1200/1800A	600702-002	600702-007	600702-012
P10	Primary Coil	Up To 400KVA	Up To 200KVA	1800/2200A	600702-003	600702-008	600702-013
S6	Secondary Rogowski Coil	Any	Any	Any	600702-004	600702-009	600702-014
S10	Secondary Rogowski Coil	Any	Any	Any	600702-005	600702-010	600702-015

These charts cover cascade controls in standard cabinets. Call factory for controls in different cabinets or controls with options.

### RETROFIT KIT BILL OF MATERIALS

600702-001	600702-002	600702-003	600702-004	600702-005	600702-006	600702-007	600702-008	600702-009	600702-010	600702-011	600702-012	600702-013	600702-014	600702-015	PART NO.	DESCRIPTION
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	600685	ASSEM, DIAL PLATE, EN1001 CASCADE
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	410363	ASSEM, PCB, PROGRAM BD. EN1001 CASCADE
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	600531-001	ASSEM, SWITCH, KEYLOCK, MOMENTARY, SPST
1					1					1					600575-003	ASSEM, TRANSFORMER, CURRENT, 200:5
	1					1					1				600576-003	ASSEM, TRANSFORMER, CURRENT, 500:5
		1					1					1			600577-003	ASSEM, TRANSFORMER, CURRENT, 1000:5
			1					1					1		600667	ASSEM, SECONDARY CURRENT, 6" COIL, ROGOWSKI
			1					1					1		322475	ASSEM, HARNESS, SECONDARY CURRENT, ROGOWSKI COIL
				1					1					1	600668	ASSEM, SECONDARY CURRENT, 10" COIL, ROGOWSKI
				1					1					1	322475	ASSEM, HARNESS, SECONDARY CURRENT, ROGOWSKI COIL
1	1	1	1	1											421438	WIRING DIAGRAM, EN1001, CASCADE, 230VAC
					1	1	1	1	1						421438-001	WIRING DIAGRAM, EN1001 CASCADE, 460VAC
										1	1	1	1	1	421438-004	WIRING DIAGRAM, EN1001 CASCADE, SELECTABLE 230/380/460/575 VAC
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	700194	MANUAL, EN1000/EN1001 CASCADE CONTROLS

\* Optional Program Lockout Switch

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700198C  
05/14



## **FIELD CONVERSION NOTES**

1. Remove ALL power to control. Open the door.
2. Disconnect J2, J3, Weld and Power Light connections from the Control Panel. Disconnect J4A and J7 from the Program Board PCB 3.
3. From outside the cabinet, remove the four (4) black 6-32 x 3/8 Phillips Pan Head Screws which hold the Control Panel to the cabinet. On the inside of the cabinet, remove the four screws attaching the Program Board to the cabinet.
4. Remove the EN1000 Cascade Control Panel. Remove the Program Board.
5. Install the supplied EN1001 Cascade Control Panel and Program Board using the screws removed in step 3.
6. Re-connect the J2, J3, J4A, J7 Weld and Power Light connections and install the Sensing Coil provided, plugging it into J12 in accordance with the accompanying Wiring Diagram.
7. Verify the Jumper configuration for Primary (H/P) or Flexible Secondary Rogowski Coil (R) near J12 on Program PCB.
8. Close and secure the door, reapply power to the control.