



PRODUCT ADVISORY LETTER NO.: CD46-95002

DATE: NOVEMBER 21, 1995

AFFECTED PRODUCT(S): Stand-alone Digital Checkback, DCB (including product supplied by ABB Power T&D Company, Inc.)

AFFECTED MODULE: Power Supply/Interface Module (style # - 1617C63G01- 4, rev./sub 2 or lower)

SYMPTOM(s): Not able to key the checkback if the keying voltage to the checkback is low.

RECOMMENDATION: Pulsar recommends the corrective action listed below be taken in applications where the keying voltage could drop below 5% of nominal voltage.

MODIFICATION KIT NO.: CD56-95002

CORRECTIVE ACTION: Only 1 part needs to be moved. With the PC board oriented such that the component side is facing you and the DIN connector is on the right, desolder the left leg of R12 from the PC board and resolder it to the right leg of R11 as shown in the instructions of the modification kit. Request modification kit # C056-95002 if you desire to do a field modification. If you choose to have your Power Supply/Interface modules updated by our factory, please return the module to us by first calling phone # 800-785-7274 (ext. 211 or customer service) to obtain a RMA number and referencing this PAL. Neither of these methods will affect any applicable warranty and both are available at no charge.

TECHNICAL DETAILS: The sensitivity (or gain) of the optoisolator, U1, is not high enough to detect a keying input at voltages that are 5% below nominal voltage. By moving the base resistor, R12, of the optoisolator's photo detector transistor from its ground connection and reconnecting it to the emitter of the photo detector transistor this substantially increases the gain of this device. With this increase in gain the optoisolator can now detect voltages that are 40% below nominal voltage.

Pulsar Technologies appreciates your past support and we want to continue to provide you the best service possible. Please help us by letting us know if future notices should be sent to another individual.

PAL: CD46-95002