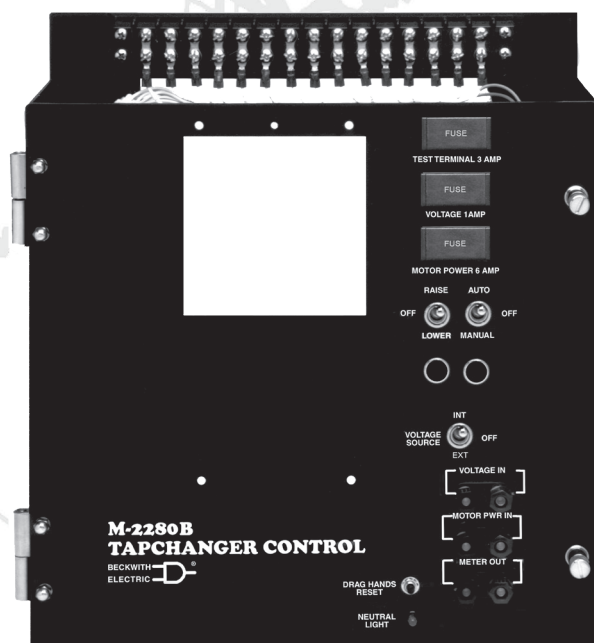# Adapter Panel
M-2280B

Adapts M-2001 Series Digital Tapchanger Control as a Replacement for General Electric Static LTC Transformer and Regulator Controls and some Balance Beam Models

- **Connects easily to the M-2001 Series Digital Tapchanger Control using mounting screws and 24-pin connector**

- **Provides direct mechanical replacement of the existing control**

- **Provides built-in CT shorting protection when the M-2001 Series Digital Tapchanger Control is removed**

- **Optional SCADA Cutout (Local/Remote) switch (for use with SCADA enabled M-2001C controls) allows Local Blocking of SCADA commands**

- **Optional SCAMP™ (SCADA Controllable Auto/Manual Pushbutton) switch replaced AUTO/OFF/MANUAL toggle switch**

- **Optional 2 Level Local Voltage Reduction Switch**

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M-2280B Adapter Panel – Specification

The M-2280B is an adapter panel which, when combined with the M-2001 Series Digital Tapchanger Control, provides convenient direct replacement for General Electric static LTC transformer and regulator controls and some balance beam models.

Interface

External connections are made to a terminal block located on the top of the rear panel of the M-2280B. Additional connections may be made to two terminal blocks located on the printed circuit board of the adapter panel. These terminal blocks provide access to auxiliary functions, including self-test alarm, user-programmable alarm, auto disable and manual raise/lower.

Features

Separate fuses for test terminal, voltage sensing and motor power are located on the front panel. Spare fuses for each are in the fuse holder.
Binding posts on the front panel allow easy connections for test procedures.
RAISE/OFF/LOWER, **AUTO/OFF/MANUAL** and **VOLTAGE SOURCE** switches, **DRAG HANDS RESET** button, and **NEUTRAL LIGHT** are standard.
NEUTRAL LIGHT will light to indicate that the regulator is in the neutral position, for those products equipped with a circuit for this purpose.

Options

SCADA CUTOUT switch allows Local blocking of SCADA commands (for use with SCADA enabled M-2001C controls). The SCADA Cutout switch must be used with a M-2001 Series Control with firmware version D-0146V08.01.22 or later installed.
SCAMP™ (AUTO/MANUAL) pushbutton switch allows the Auto/Manual state on the adapter panel to be changed by a SCADA command. The SCAMP pushbutton switch must be used with a M-2001 Series Control with firmware version D-0146V08.05.XX or later installed.
Voltage Reduction switch allows 2 levels of Voltage Reduction to be selected.

Testing Specifications

High Voltage: All input and output terminals will withstand 1500 Vac rms to chassis or instrument ground for one minute with a leakage current not to exceed 25 mA, for all terminals to ground. Input and output circuits are electrically isolated from each other, from other circuits and from ground.
Surge Withstand Capability: All input and output circuits are protected against system transients. Units pass all requirements of ANSI/IEEE C.37.90.1-1989 defining surge withstand capability.
Radiated Electromagnetic Withstand Capability: All units are protected against electromagnetic radiated interference from portable communications transceivers.

Environmental

Temperature Range: Functionality is maintained from -40° to +85° C.

Humidity: Functionality is maintained under 95% relative humidity (non-condensing).

Fungus Resistance: A conformal printed circuit board coating inhibits fungus growth.

Physical

Size: 13-7/8" high x 12-7/8" wide x 5" deep (35.2 cm x 32.7 cm x 12.7 cm)

Mounting: 11" high x 8" wide (27.9 cm x 20.3 cm) 4-hole pattern for surface mounting

Approximate Weight: 6 lbs, 3 oz (2.8 kg)

Approximate Shipping Weight: 8 lbs, 3 oz (3.7 kg)

Approximate Weight with M-2001 Series Digital Tapchanger Control: 10 lbs, 8 oz (4.8 kg)

Approximate Shipping Weight with M-2001 Series Digital Tapchanger Control: 14 lbs, 3 oz (6.44 kg)

Warranty

The M-2280B Adapter Panel is covered by a five year warranty from date of shipment.

Trademarks

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Speci ication subject to change without notice. Beckwith Electric has approved only the English version of this document.

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