

# Bus Tie Breaker Management Controller

## INTRODUCTION

The BTB200 controller provides the ability to control a bus tie breaker, for applications where it is necessary to divide the common bus-bars during certain operating conditions.

It manages the synchronization between the two separated halves of the bus-bars (named A and B), based on an input signal, taking into account the number of gensets connected on the two halves.

Genset synchronization is achieved directly by the CANBUS connection to the Mecc Alte genset controllers, or alternatively by using analogue lines.

BTB200 measures the current flow across the tie breaker (3phase) by means of current transformers. It is able to measure the active (kW), reactive (kVAR) and apparent power (kVA) exchanged on the bus-bars (and the power factor too), showing the flowing direction (A to B or B to A) on the display and by the LEDs on the front panel. BTB200 also measures the total energy on the bus-bars using energy counters (active and reactive, A to B and B to A).

For complex applications, it is possible to connect on the same CANBUS up to 8 BTB200 bus tie breaker controllers, and up to 16 MC200 mains controllers and up to 16 GC600 or 24 DST4602 Evolution genset controllers.

BTB200 provides several different communication options, to ensure easy integration with remote monitoring facilities and building management systems.

A large full colour display presents operating status in a clear easy to view format. Combined with generous input and output capability that means complex sites can be tackled with ease.

## EMBEDDED FUNCTIONS

- Automatic or manual selection of the synchronization direction
- Automatic or manual synchronization
- Voltage, frequency and phase matching in synchronizing
- Direct management of motorized circuit breakers or contactors
- Dedicated push buttons for manual opening/closure of the bus tie breaker
- Four alternative configurations
- Real time clock
- Periodical and 'on event' data recording
- Embedded audible alarm sounder
- Multi-language device (EN, PT, IT, FR, ES)

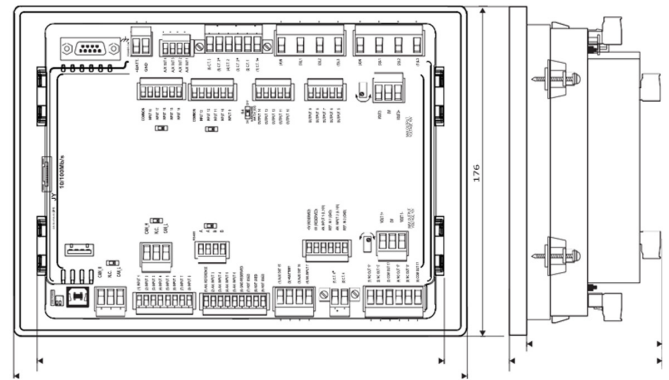
## COMMUNICATIONS

- RS232 serial port (Modbus RTU)
- RS485 insulated serial port (Modbus RTU)
- Ethernet port 10/100Mbps (Modbus TCP)
- USB port (Modbus RTU)
- Insulated CANBUS interfaces (for the two halves of the common bus-bars)

## Options

- REWIND device for SIMONE remote monitoring connection

## IMAGE OUTSTANDING



## TECHNICAL DATA

- Supply voltage 8-32V DC
- Power consumption typically less than 6W (standby, controller switched on, LCD lamp switched off)
- Operating frequency 50Hz or 60Hz
- 4.3" TFT colour display with backlight
- Graphic display resolution 480 x 272 pixel
- Graphic display dimensions visible surface 95 x 54 mm
- Recommended operating temperature -30°C to +70°
- Storage temperature -30°C to +80°C
- Protection degree IP65 (only with gasket correctly installed)
- Weight 1100grammes
- Overall dimension 244 (W) x 178 (H) x 83 (D)
- Panel cut-out 218 (L) x 159 mm (H)
- EMC conforms to EN61326-1
- Safety built in conformity to EN61010-1



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