



# Type 8550-1900

The 8550-1900 Cat PWM Command Module is used to provide an engine throttle signal or basic control logic for Cat electronic engines. It accepts a standard analog input and outputs a variable-duty-cycle, pulse-width-modulated signal (PWM). The duty cycle of the signal determines the desired speed of the engine.

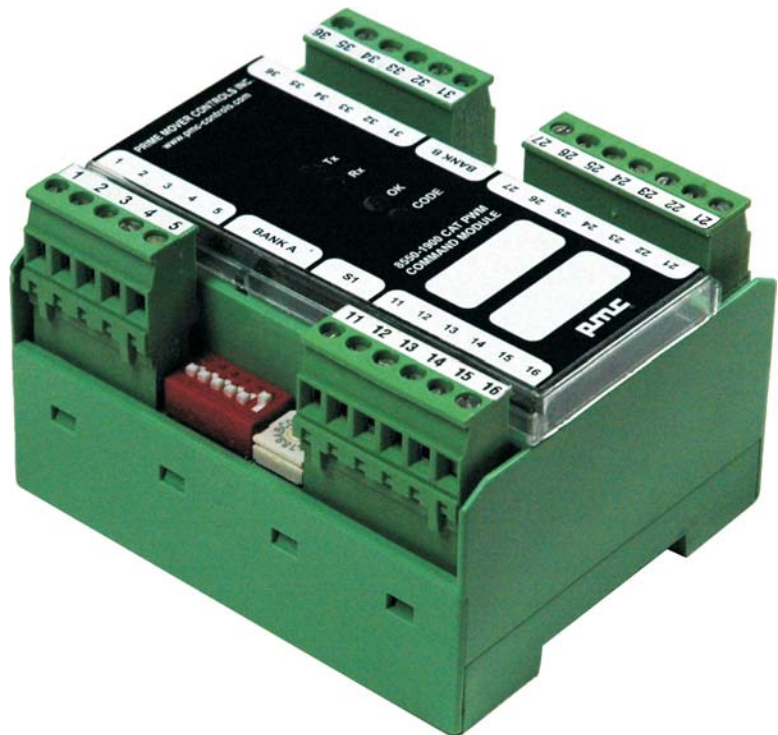
## APPLICATIONS

- Simple control system for vessels with CAT electronic engines driving fixed pitch propellers
- CAT pulse width modulated (PWM) throttle signal conditioner

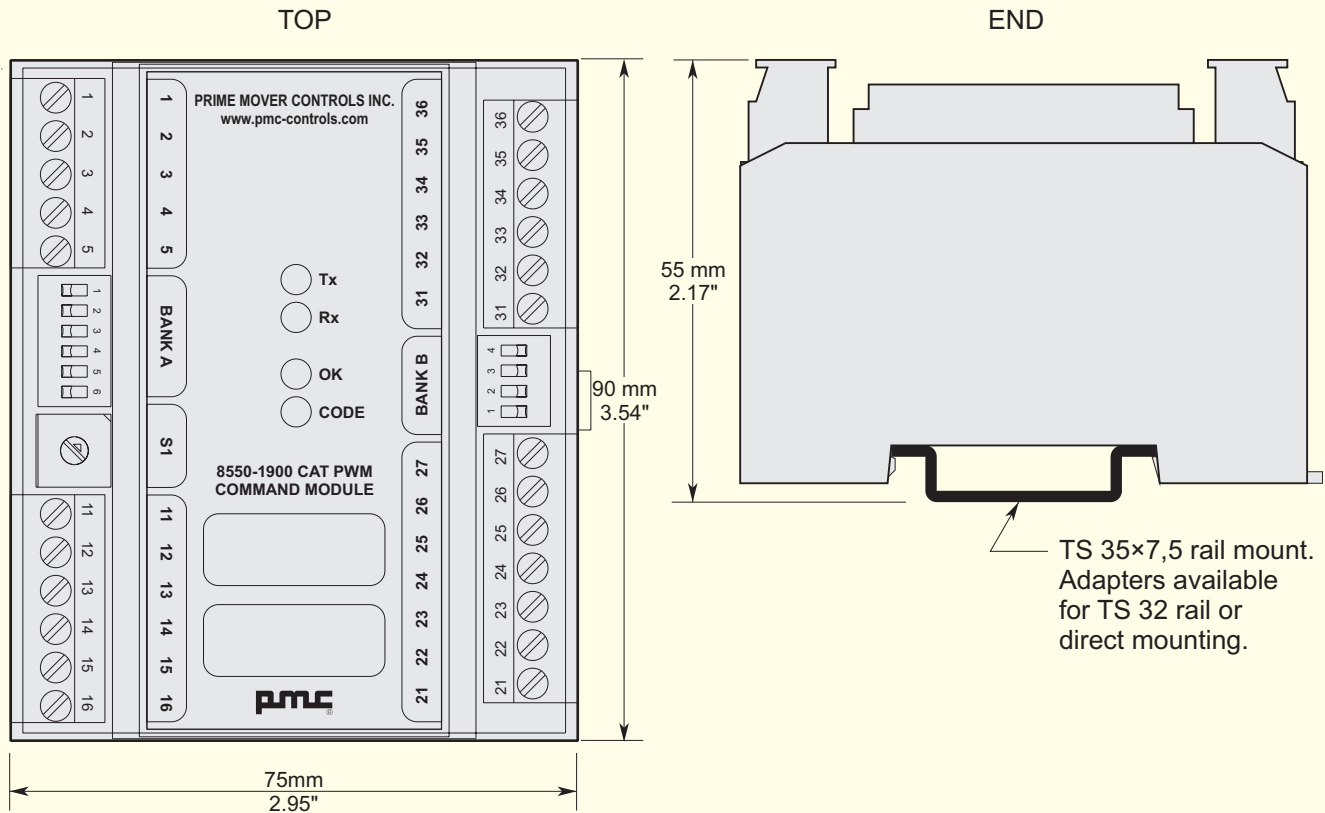
## FEATURES

- Potentiometer input
- 4 to 20 mA input
- Pulse width modulated output
- Open collector outputs
- ModBus RTU
- Switch selectable RS-232, RS-422 or RS-485 communication
- Switch selectable communication termination
- Dual 12 V<sub>DC</sub> or 24 V<sub>DC</sub> nominal power supplies
- Status LEDs indicate data transfer
- Status LED for watch dog
- Diagnostic LED flashes error codes
- Removable terminal blocks
- TS 35 x 7.5 rail mount

## CAT PWM COMMAND MODULE



## DIMENSIONS FOR 8550-1900 CAT PWM COMMAND MODULE



SCALE 1 : 1

### SPECIFICATIONS:

#### Supply:

- Nominal 12 V<sub>DC</sub>, or 24 V<sub>DC</sub>
- Nominal 12 V<sub>DC</sub> range 9 to 36 V<sub>DC</sub>
- Nominal 24 V<sub>DC</sub> range 18 to 36 V<sub>DC</sub>
- Reverse voltage protection
- Nominal 50 mA, peak 150 mA

#### Environmental:

- Operating temperature -25 to +70°C
- Storage temperature -40 to +85°C
- Vibration: Frequency range 2 to 100 Hz  
Peak to peak amplitude 2 mm below 13.2 Hz  
Acceleration amplitude 0.7 g above 13.2 Hz
- CE compliant for EMC (IEC/EN60945)

#### Physical:

- IP40 case (NEMA Type 1)
- Dimensions:  
90 mm L × 75 mm W × 55 mm H  
(3.54" L × 2.95" W × 2.17" H)
- Weight, typical 0.15 kg (0.32 lbs)
- Removable terminal blocks for 14 to 20 AWG wires

#### Diagnostics:

- Watchdog LED
- Open collector output for fault
- Diagnostic fault LED flashes error codes
- Tx & Rx activity LEDs
- ModBus RTU Slave access to fault codes, operating data and configuration

#### Inputs / Outputs:

- Command potentiometer 2.5 k $\Omega$  or 5 k $\Omega$
- Command 4 to 20 mA
- Pulse Width Modulated 500 pulses per second (PWM)
- Open collector outputs 1 A @ 24 V<sub>DC</sub>
- ModBus RTU
- Communication RS-232 / RS-422 / RS-485

## PRIME MOVER CONTROLS INC.

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