



# Type 8545-1000

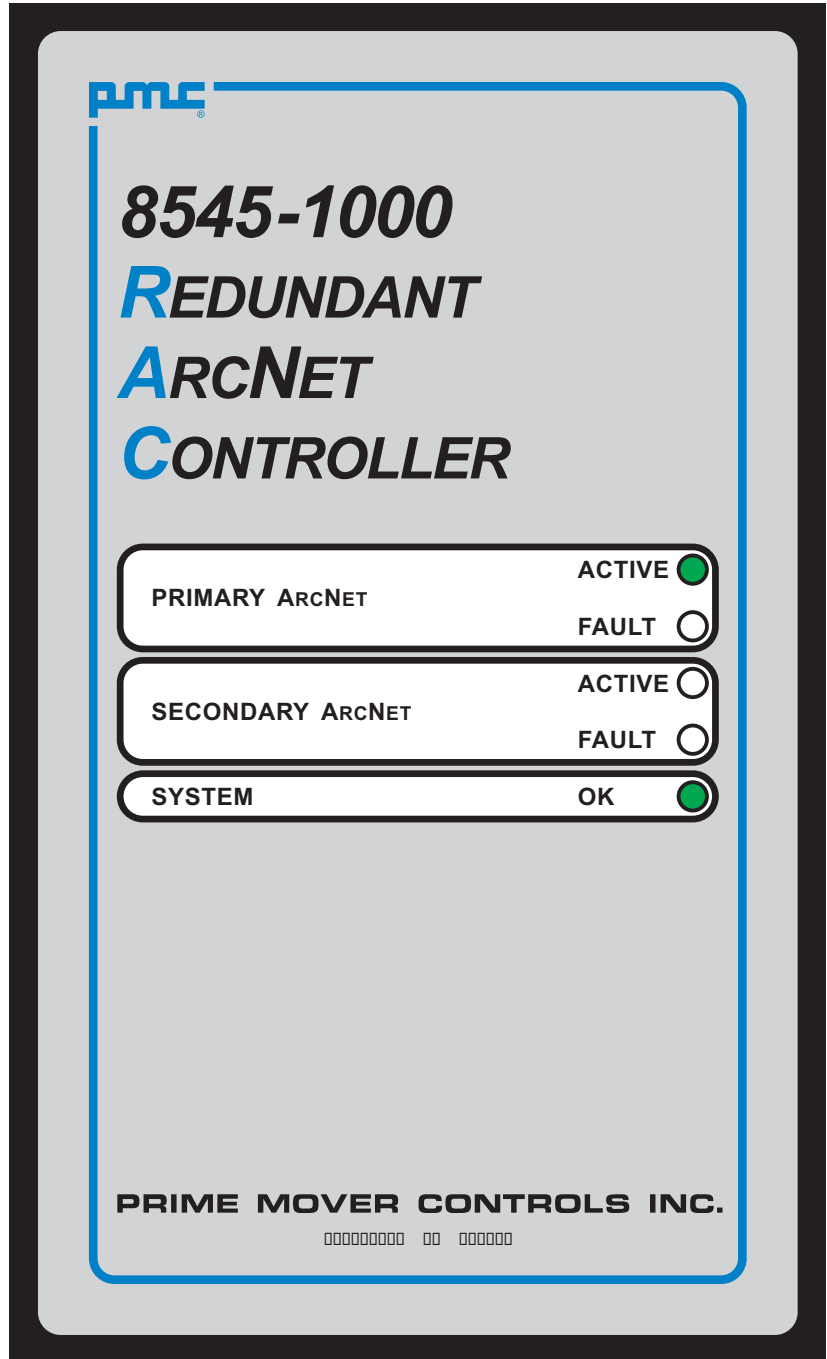
The PMC 8545-1000 provides a fully redundant ARCnet network. Normally operating on the primary bus, auto changeover to the secondary bus is transparent to the operator. Both primary and secondary networks are continuously monitored for: token rotation time, cable integrity and current network map.

The status and control of the network is communicated by an independent and redundant bus. This allows the 8545-1000 to have virtually no impact on the available ARCnet bandwidth.

## FEATURES

- Continuous monitoring for bus integrity of primary and secondary ARCnet cables
- ARCnet token rotation time and network map reporting
- Optional local ARCnet status reporting via RS-232
- Virtually no impact on ARCnet bandwidth
- Auxiliary alarm functions for monitoring attached equipment (e.g. PLC, computer, etc.)
- Optional local auxiliary alarm control / reporting via RS-232
- Relay output for unit fault (communication, CPU, power or setup)
- Self diagnostics with status indication
- Optional local self diagnostic and status reporting via RS-232
- Flush or pan mount options
- IP 65 front

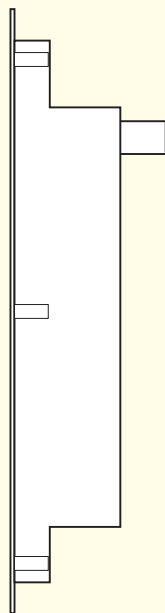
## REDUNDANT ARCNET CONTROLLER



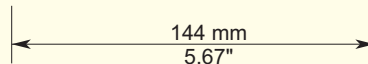
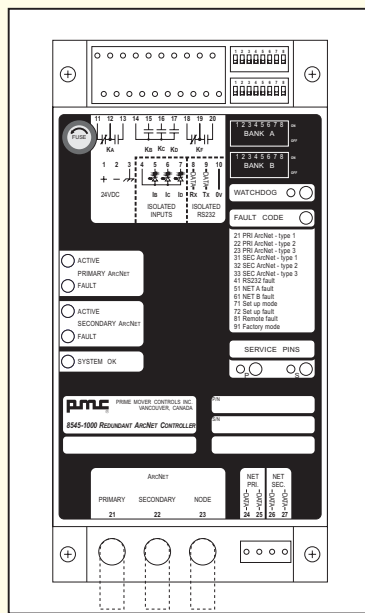
**PRIME MOVER CONTROLS INC.**

## DIMENSIONS FOR 8545-1000 REDUNDANT ARCNET CONTROLLER

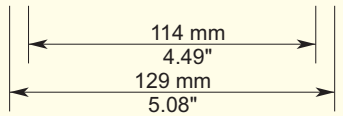
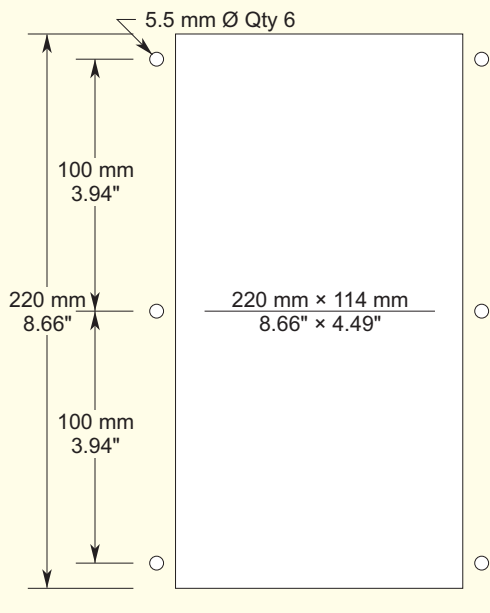
SIDE VIEW



BACK VIEW



CUTOUT



SCALE 1 : 3

(Shown as flush mount option)

Mounting hardware is included with each panel and consists of 6 nuts and washers.

**SPECIFICATIONS:**

**Supply 24 VDC:**

- Nominal 24 V<sub>DC</sub>, range 18 to 35 V<sub>DC</sub>
- Reverse and overvoltage protection to 120 V<sub>AC</sub>
- 145 mA nominal, 200 mA max
- Input power fuse, 1 amp, type ABC-1

**Environmental:**

- Operating temperature 0 to +70°C
- Storage temperature -30 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

**Physical:**

- IP65 front (IP40 case)
- Dimensions 240 mm H × 144 mm W × 62 mm D (9.45" H × 5.67" W × 2.44" D)
- Weight 0.68 kg (1.50 lbs)
- Removable terminal block for 14 to 20 AWG wires

**ArcNet:**

- Signalling rate, nominal 2.5 Mbps
- Operator transparent changeover
- Primary and secondary ArcNet active LEDs
- Primary and secondary ArcNet fault LEDs

**Auxiliary Alarm:**

- Fault input, optically isolated nominal 24 V<sub>DC</sub>
- Silence input, optically isolated nominal 24 V<sub>DC</sub>
- Acknowledge input, optically isolated nominal 24 V<sub>DC</sub>
- Horn relay contact, 1 A @ 30 V<sub>DC</sub>
- Alarm relay contact, 1 A @ 30 V<sub>DC</sub>

**RS-232 Port:**

- 9600, 8 bit, 1 stop, no parity
- ARCnet token rotation time and network map
- Aux alarm control / reporting
- System status / error codes

**RAC Network:**

- Cable, single 16 AWG twisted pair
- Bus Topology, total wire length 2700 m
- Free Topology, total wire length 500 m
- Optional physical layer repeater can extend total wire length

**Diagnostics:**

- Fault relay form 'C' contact, 1 A @ 30 V<sub>DC</sub>

## PRIME MOVER CONTROLS INC.

3600 GILMORE WAY, BURNABY BC CANADA V5G 4R8

TEL 604 433-4644 FAX 604 433-5570 www.pmc-controls.com