

# **TotalArc BMS**

- Three versions of the TotalArc BMS to fit the customer's power requirements:
- AC Powered
  - Requires 120 Vac power from the Facility
- 12 Vdc Powered with Solar Backup
  - Has a 12 Vdc Battery charged by the provided solar panel and internal solar charger.
- DC Powered
  - Requires 12 24 Vdc power from the Facility.



• The TotalArc BMS can operate in two different ways, depending on Pneumatic Setup:

TotalArc BMS Thermostatic Pilot

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STATUS INDICATOR æ

- When the Pneumatic Safeties are made, the Pilot and Main Gas Valves are On.
- Temperature is controlled by a Pneumatic Controller.
- Pilot is always on as long as the Pneumatic Safeties are satisfied
- TotalArc BMS Intermittent Pilot
  - When the Pneumatic Safeties and Pneumatic Temperature Controller are on AND a heat request is on, the Pilot and Main gas valves are On.
- When there is no heat request from the temperature controller, the Pilot Flame is not present or active.

## TotalArc BMS Thermostatic Pilot P&ID



## TotalArc BMS Intermittent Pilot P&ID



### **TotalArc BMS Part Numbers**

SYSTEM	PART NUMBER
Solar Powered System	460346
120 Vac Powered System	460347
12 – 24Vdc Powered System	460348



- The TotalArc BMS has two LED Lights:
- Green Light Codes:

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STATUS INDICATOR æ

- Double-Blink: This indicates that it is waiting for a "Call For Heat"
- Fast-Blink: The igniter module is sparking the igniter rod.
- Fading In and Out: The system is either proving the Pilot or a 5-minute purge is in progress.
- Steady Light: The Pilot and Main Gas Valves are ON and the BMS has proven the Pilot and Main flames.
- Red Light Codes:
  - Single-Blink: The TotalArc BMS is waiting for the Pilot Ignition button to be depressed.
  - Steady Light: The TotalArc BMS is in a Lockout condition
  - 4-Blink Sequence: The TotalArc BMS does not recognize one or more of the solenoid valves.

### **TotalArc BMS - Electronic Control**

