

# FCPS-24F Battery Calculation

Since the current draws listed here can be edited, the user is fully responsible for verifying these calculations.

**Entries only to be made in the Yellow cell locations**

Regulated Load in Standby

Page 1

Table 5-1

| Device Type                        | Number of Devices |   | Current (Amps) |   | Total Current (Amps) |
|------------------------------------|-------------------|---|----------------|---|----------------------|
| Main PC Board without AC           |                   | X | 0.032          | = | 0                    |
| Fail Report Delay Enabled          |                   |   |                |   |                      |
| Main PC Board with AC              |                   | X | 0.048          | = | 0                    |
| Fail Report Delay Enabled          |                   |   |                |   |                      |
| MPM-4                              |                   | X | 0.008          | = | 0                    |
| EOL Relays                         |                   | X |                | = | 0                    |
| Smoke Detectors                    |                   | X |                | = | 0                    |
| Smoke Detectors                    |                   | X |                | = | 0                    |
| EOL Resistors                      |                   | X |                | = | 0                    |
| Annunciators                       |                   | X |                | = | 0                    |
| Auxillary Devices                  |                   | X |                | = | 0                    |
|                                    |                   |   |                |   |                      |
|                                    |                   |   |                |   |                      |
| <b>SUM COLUMN FOR STANDBY LOAD</b> |                   |   | <b>0</b>       | = | AMPS                 |

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Regulated Load in **ALARM**

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Table 5-2

| Device Type   | Number of Devices |   | Current (Amps) |   | Total Current (Amps) |
|---|-------------------|---|----------------|---|----------------------|
| Main PC Board without AC<br>Fail Report Delay Enabled |                   | X | 0.032          | = | 0                    |
| Main PC Board with AC<br>Fail Report Delay Enabled    |                   | X | 0.048          | = | 0                    |
| MPM-4   |                   | X | 0.008          | = | 0                    |
| EOL Relays  |                   | X |                | = | 0                    |
| Smoke Detectors                                       |                   | X |                | = | 0                    |
| Smoke Detectors                                       |                   | X |                | = | 0                    |
| EOL Resistors   |                   | X |                | = | 0                    |
| Annunciators  |                   | X |                | = | 0                    |
| Auxillary Devices                                     |                   | X |                | = | 0                    |
| Notification Appliances                               |                   | X |                | = | 0                    |
| Notification Appliances                               |                   | X |                | = | 0                    |
| Notification Appliances                               |                   | X |                | = | 0                    |
| SUM COLUMN FOR LOAD IN ALARM                          |                   |   | <b>0</b>       | = | AMPS                 |

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Calculation in Total Sheet

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Table 5-3

Use the total standby and alarm load currents calculated in tables 5-1 and 5-2 for the following battery calculations

|  |   |   |   |   |     |
|--|---|---|---|---|-----|
| Standby Load<br>Current (Amps)                                 | 0 | X | Required Standby Time in Hours<br>(24 or 60 Hrs.)   |   |     |
|  |   |   | 24  | = | 0   |
| Alarm Load<br>Current (Amps)                                   | 0 | X | Required Alarm Time in Hours<br>(5 minutes = 0.084) |   |     |
|  |   |   | 0.084   | = | 0   |
| Add Standby and Alarm Load for Required<br>Ampere Hour Battery |   |   |   |   | 0   |
| Multiply by the Derating Factor of 1.2                         |   |   |   |   |     |
| Total Ampere Hours Required                                    |   |   |   |   | = 0 |