

## 16.1 Series C recommended spares

The following table provides replacement parts, or parts that you may want to keep on hand for backup.

### 16.1.1 IOM removal and installation under power

The IOM has been designed to permit removal and installation under power (RIUP) without damaging the module or interrupting IOTA communications. Notice should be taken on how this may impact the active process.



#### CAUTION

We recommend that you proceed with extreme caution whenever replacing any component in a control system. Be sure the system is offline or in a safe operating mode.

Component replacements may also require corresponding changes in the control strategy configuration through Control Builder, as well as downloading appropriate data to the replaced component.

Refer to “Replacing an I/O module” on page 550 for IOM replacement and cautionary information.

**Table 154: Recommended spare parts**

| Part name                          | Part number                | Description  |                             |  |
|------------------------------------|----------------------------|--|-----------------------------|--|
| <b>ANALOG INPUT</b>                |                            |  |                             |  |
| Series C AI IOM                    | CC- PAIH01                 | Series C Analog Input Module                       |                             |  |
|                                    | CC-PAIH02                  | Series C HART Differential Analog Input Module     |                             |  |
|                                    | CC-PAIX02                  | Series C non-HART Differential Analog Input Module |                             |  |
|                                    | CC-PAIN01                  | Series C non-HART Analog Input Module              |                             |  |
|                                    | CC-PAIH51                  | Series C Analog Input Module                       |                             |  |
| <b>IOTA</b>                        |                            |  |                             |  |
| Non-Redundant. IOTA                | CC- TAIX01<br>51308363-175 | Analog Input, non-redundant, coated                |                             |  |
|                                    | Cx-TAIX51<br>51306979-175  | Analog Input, non-redundant, coated                |                             |  |
| Redundant. IOTA                    | CC- TAIX11<br>51308365-175 | Analog Input, redundant, coated                    |                             |  |
| <i>Terminal plug-in assembly</i>   |                            |  |                             |  |
| 16-terminal block plug-in assembly | 51506273-216               | 2 per IOTA   |                             |  |
| 4-terminal block plug-in assembly  | 51506269-204               | 1 per IOTA   |                             |  |
| <i>Fuses</i>                       |                            |  |                             |  |
| <i>Description</i>                 | <i>Part number</i>         | <i>Quantity</i>                                    | <i>Reference designator</i> | <i>Function</i>  |
| Fuse 750 mA, 5x20, fast acting     | 51190582-175               | 1 per non-red. IOTA                                | F1                          | The fuse covers the IOM and the power feeds to the field wiring. A blown fuse interrupts power to these. |

| Part name                               |                            | Part number                                      |                             | Description  |  |
|---|----------------------------|--|-----------------------------|--|--|
|   |                            | 2 per red. IOTA                                  | F1<br>F2                    | F1 covers upper IOM<br>F2 covers lower IOM<br>If one fuse is blown power is interrupted to the IOM, but field wiring continues to receive power from other fuse. |  |
| <b>ANALOG OUPUT</b>                     |                            |  |                             |  |  |
| Series C AO IOM                         | CC- PAOH01                 | Series C HART Analog Output Module               |                             |  |  |
|   | CC-PAOX01                  | Series C non-HART Analog Output Module           |                             |  |  |
|   | CC-PAON01                  | Series C non-HART Analog Output Module           |                             |  |  |
|   | CC-PAOH51                  | Series C HART Analog Output Module               |                             |  |  |
| <b>IOTA</b>                             |                            |  |                             |  |  |
| AO<br>Non-Redundant. IOTA               | CC-TAOX01<br>51308351-175  | Analog Output, non-redundant, coated             |                             |  |  |
|   | Cx-TAOX51<br>51306983-175  | Analog Output, non-redundant, coated             |                             |  |  |
| AO Redundant. IOTA                      | CC- TAOX11<br>51308353-175 | Analog Output, redundant, coated                 |                             |  |  |
|   | Cx-TAOX61<br>51306981-175  | Analog Output, redundant, coated                 |                             |  |  |
| <i>Terminal plug-in assembly</i>        |                            |  |                             |  |  |
| 16-pin terminal plug-in assembly        | 51506273-216               | 2 per non-redundant IOTA<br>2 per redundant IOTA |                             |  |  |
| <i>Fuses</i>                            |                            |  |                             |  |  |
| <i>Description</i>                      | <i>Part number</i>         | <i>Quantity</i>                                  | <i>Reference designator</i> | <i>Function</i>  |  |
| Fuse 1A Fast acting<br>5x20mm           | 51190582-210               | 1 per non-red.<br>IOTA                           | F2                          | Standby Manual connector fuse  |  |
|   |                            | 1 per red. IOTA                                  | F3                          |  |  |
| Fuse 2A Fast acting<br>5x20mm           | 51190582-220               | 1 per non-red.<br>IOTA                           | F1                          | Module fuse  |  |
|   |                            | 2 per red. IOTA                                  | F1, F2                      |  |  |
| <b>ANALOG INPUT LOW LEVEL</b>           |                            |  |                             |  |  |
| Series C AI Low Level IOM               | CC-PAIM01                  | Series C Low Level Module                        |                             |  |  |
| <b>IOTA</b>                             |                            |  |                             |  |  |
| AI Low Level<br>IOTA                    | CC--TAIM01<br>51305959-175 | AI Low Level, non-redundant,<br>coated           |                             |  |  |
| <i>Connector block assembly</i>         |                            |  |                             |  |  |
| Connector Block Assembly, 6<br>Position | 51195775-100               | 4 per IOTA                                       |                             |  |  |
| <i>Fuse</i>                             |                            |  |                             |  |  |
| <i>Description</i>                      | <i>Part number</i>         | <i>Quantity</i>                                  | <i>Reference designator</i> | <i>Function</i>  |  |

| Part name                            |                    | Part number                |                                | Description                                      |  |
|--------------------------------------|--------------------|----------------------------|--------------------------------|--|--|
| FUSE, 0.25 Amp, Quick Blo, 5x20mm    | 51190582-125       | 4 per IOTA                 | F3                             | Power to FTA 1 only                              |  |
|                                      |                    |                            | F4                             | Power to FTA 2 only                              |  |
|                                      |                    |                            | F5                             | Power to FTA 3 only                              |  |
|                                      |                    |                            | F6                             | Power to FTA 4 only                              |  |
| FUSE, 1 Amp, Quick Blo, 5x20mm       | 51190582-210       | 2 per IOTA                 | F1                             | Power to module electronics                      |  |
|                                      |                    |                            | F2                             | Switched power to all FTAs                       |  |
| <b>LOW LEVEL ANALOG INPUT</b>        |                    |                            |                                |  |  |
| Series C Low Level AI IOM            |                    | CC-PAIL51                  |                                | Series C Low Level Module                        |  |
| <b>IOTA</b>                          |                    |                            |                                |  |  |
| Low Level AI IOTA                    |                    |                            | CC--TAIL5<br>1<br>513071<br>92 | Low Level AI, non-redundant, coated              |  |
| <i>Connector block assembly</i>      |                    |                            |                                |  |  |
| Connector Block Assembly, 6 Position |                    | 51195775-100               |                                | 4 per IOTA                                       |  |
| <i>Fuse</i>                          |                    |                            |                                |  |  |
| <i>Description</i>                   | <i>Part number</i> | <i>Quantity</i>            | <i>Reference designator</i>    | <i>Function</i>                                  |  |
| FUSE, 0.25 Amp, Quick Blo, 5x20mm    | 51190582-125       | 4 per IOTA                 | F3                             | Power to FTA 1 only                              |  |
|                                      |                    |                            | F4                             | Power to FTA 2 only                              |  |
|                                      |                    |                            | F5                             | Power to FTA 3 only                              |  |
|                                      |                    |                            | F6                             | Power to FTA 4 only                              |  |
| FUSE, 1 Amp, Quick Blo, 5x20mm       | 51190582-210       | 2 per IOTA                 | F1                             | Power to module electronics                      |  |
|                                      |                    |                            | F2                             | Switched power to all FTAs                       |  |
| <b>DIGITAL INPUT 24V</b>             |                    |                            |                                |  |  |
| Series C DI-24 IOM                   |                    | CC- PDIL01                 |                                | Series C 24V Digital Input Module                |  |
|                                      |                    | CC-PDIL51                  |                                | Series C 24V Digital Input Module                |  |
| <b>IOTA</b>                          |                    |                            |                                |  |  |
| DI-24V Non-Redundant. IOTA           |                    | CC- TDIL0<br>51308371-175  |                                | 24V Digital Input, non-redundant, coated         |  |
|                                      |                    | Cx-TDIL51<br>51306969-175  |                                | 24V Digital Input, non-redundant, coated         |  |
| DI-24V Redundant. IOTA               |                    | CC- TDIL11<br>51308373-175 |                                | 24V Digital Input, redundant, coated             |  |
|                                      |                    | Cx-TDIL61<br>51306967-175  |                                | 24V Digital Input, redundant, coated             |  |
| <i>Terminal plug-in assembly</i>     |                    |                            |                                |  |  |
| 16-terminal plug-in assembly         |                    | 51506273-216               |                                | 2 per non-redundant IOTA<br>2 per redundant IOTA |  |

| Part name                          | Part number                | Description                                      |                             |  |
|------------------------------------|----------------------------|--|-----------------------------|--|
| 4-terminal plug-in assembly        | 51506269-204               | 1 per non-redundant IOTA<br>1 per redundant IOTA |                             |  |
| <i>Fuses</i>                       |                            |  |                             |  |
| <i>Description</i>                 | <i>Part number</i>         | <i>Quantity</i>                                  | <i>Reference designator</i> | <i>Function</i>  |
| Fuse 0.5A Fast acting<br>5x20mm    | 51190582-150               | 3 per non-red.<br>IOTA                           | F1                          | Fuse for field power if system power is connected through TB3, in series with F3 |
|                                    |                            |  | F2                          | Top IOM kernel   |
|                                    |                            |  | F3                          | Fuse for field power if external power is connected through TB3                  |
|                                    |                            | 4 per red. IOTA                                  | F1                          | Fuse for field power if system power is connected through TB3, in series with F4 |
|                                    |                            |  | F2                          | Top IOM kernel   |
|                                    |                            |  | F3                          | Bottom IOM kernel  |
|                                    |                            |  | F4                          | Fuse for field power if external power is connected through TB3                  |
|                                    | <b>DIGITAL OUTPUT 24V</b>  |  |                             |  |
| Series C DO IOM                    | CC--PDOB01                 | Series C Digital Output Module                   |                             |  |
|                                    | CC-PDOD51                  | Series C Digital Output Module                   |                             |  |
| <b>IOTA</b>                        |                            |  |                             |  |
| 24V DO<br>Non-Redundant IOTA       | CC--TDOB01<br>51308371-175 | 24V Digital Output, bussed, non-redundant        |                             |  |
|                                    | Cx-TDOD51<br>51306975-175  | 24V Digital Output, bussed, non-redundant        |                             |  |
| 24V DO Redundant IOTA              | CC--TDOB11<br>51308373-175 | 24V Digital Output, bussed, redundant, coated    |                             |  |
|                                    | Cx-TDOD61<br>51306973-175  | 24V Digital Output, bussed, redundant, coated    |                             |  |
| <i>Terminal plug-in assemblies</i> |                            |  |                             |  |
| 16-terminal plug-in assembly       | 51506273-216               | 2 per non-redundant IOTA<br>2 per redundant IOTA |                             |  |
| 4-terminal plug-in assembly        | 51506269-204               | 1 per non-redundant IOTA<br>1 per redundant IOTA |                             |  |
| <i>Fuses</i>                       |                            |  |                             |  |
| <i>Description</i>                 | <i>Part number</i>         | <i>Quantity</i>                                  | <i>Reference designator</i> | <i>Function</i>  |
| Fuse 10A Fast acting<br>5x20mm     | 51190582-310               | 1 per non-red.<br>IOTA                           | F1                          | Fuse for field power if system power is connected through TB3                    |
|                                    |                            | 1 per red. IOTA                                  | F1                          |  |
| Fuse 5A Fast Acting<br>5x20mm      | 51190582-250               | 1 per non-red.<br>IOTA                           | F2                          | Fuse for field power if system power is connected via TB3                        |