Pulse Wiring for 900CDP and 900CDPX
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FuelMaster

• **900CDP Diagrams (Uses Barrier)**
  – Contact Closure
  – Current Sink

• **900CDPX Diagram (No Barrier)**
  – WARNING – This type of installation is NOT INTRINSICALLY SAFE. Do not connect power directly to the meter in Hazardous locations.
  – Consult National, State, and Local codes for further definition of Hazardous locations.
900CDP to FuelMaster FMS Contact Closure

Position 1 on IS Barrier

Position 3 on IS Barrier
900CDP to FuelMaster FMS
Current Sink

330 OHM 1 WATT OR EQUIVALENT PULL-UP RESISTOR

Position 1 on IS Barrier

Position 3 on IS Barrier
WARNING – This type of installation is NOT INTRINSICALLY SAFE. Do not connect power directly to the meter in Hazardous locations.

Consult National, State, and Local codes for further definition of Hazardous locations.
PV100 FMS

- **900CDP Diagrams (Uses Barrier)**
  - Contact Closure

- **900CDPX Diagram** (No Barrier)
  - WARNING – This type of installation is NOT INTRINSICALLY SAFE. Do not connect power directly to the meter in Hazardous locations.
  - Consult National, State, and Local codes for further definition of Hazardous locations.
SW1 Settings on PV100 PCM Board:
- Set switch 3 to CLOSED (Passive Pulser)
- Set switch 4 to OPEN (Electronic Pulser)
WARNING – This type of installation is NOT INTRINSICALLY SAFE. Do not connect power directly to the meter in Hazardous locations.

Consult National, State, and Local codes for further definition of Hazardous locations.

SW1 Settings on PV100 PCM Board:
- Set switch 3 to CLOSED (Passive Pulser)
- Set switch 4 to OPEN (Electronic Pulser)
AFC FMS

• 900CDP Diagrams (Uses Barrier)
  – Contact Closure

• 900CDPX Diagram (No Barrier)
  – WARNING – This type of installation is NOT INTRINSICALLY SAFE. Do not connect power directly to the meter in Hazardous locations.
  – Consult National, State, and Local codes for further definition of Hazardous locations.
900CDP to OPW AFC FMS
Contact Closure

Switch Settings on AFC Relay Board:
- Set switch 3 and 4 to ON (Passive Pulser)
- Set switch 5 and 6 to OFF (Electronic Pulser)
900CDPX to OPW AFC FMS

WARNING – This type of installation is NOT INTRINSICALLY SAFE. Do not connect power directly to the meter in Hazardous locations.

Consult National, State, and Local codes for further definition of Hazardous locations.

Switch Settings on AFC Relay Board:
- Set switch 3 and 4 to ON (Passive Pulser)
- Set switch 5 and 6 to OFF (Electronic Pulser)
K800 FMS

- **900CDP Diagrams (Uses Barrier)**
  - Contact Closure

- **900CDPX Diagram (No Barrier)**
  - WARNING – This type of installation is NOT INTRINSICALLY SAFE. Do not connect power directly to the meter in Hazardous locations.
  - Consult National, State, and Local codes for further definition of Hazardous locations.
900CDP to OPW K800 FMS
Contact Closure

SW1 Settings on K800 FIT PC Board:
Set switches 5 – 8 to CLOSED (Passive Pulser)

SW2 Settings on K800 FIT PC Board:
Set switch 7 to CLOSED (Electronic Pulser)
900CDPX to OPW K800 FMS

WARNING – This type of installation is NOT INTRINSICALLY SAFE. Do not connect power directly to the meter in Hazardous locations.

Consult National, State, and Local codes for further definition of Hazardous locations.

SW1 Settings on K800 FIT PC Board:
Set switches 5 – 8 to CLOSED (Passive Pulser)

SW2 Settings on K800 FIT PC Board:
Set switch 7 to CLOSED (Electronic Pulser)

Terminal Block in 900CDPX Meter
K800 Hybrid FMS

- **900CDP Diagrams (Uses Barrier)**
  - Contact Closure

- **900CDPX Diagram (No Barrier)**
  - **WARNING** – This type of installation is NOT INTRINSICALLY SAFE. Do not connect power directly to the meter in Hazardous locations.
  - Consult National, State, and Local codes for further definition of Hazardous locations.
900CDP to OPW K800 Hybrid FMS Contact Closure

SW1 Settings on K800 Hybrid FIT PC Board:
Set switches 5 – 8 to CLOSED (Passive Pulser)

SW2 Settings on K800 Hybrid FIT PC Board:
Set switch 7 to CLOSED (Passive Pulser)
WARNING – This type of installation is NOT INTRINSICALLY SAFE. Do not connect power directly to the meter in Hazardous locations.

Consult National, State, and Local codes for further definition of Hazardous locations.

SW1 Settings on K800 Hybrid FIT PC Board:
Set switches 5 – 8 to CLOSED (Passive Pulser)

SW2 Settings on K800 Hybrid FIT PC Board:
Set switch 7 to CLOSED (Passive Pulser)
C/OPT or FIT500 FMS

• **900CDP Diagrams** (Uses Barrier)
  – [Contact Closure](#)

• **900CDPX Diagram** (No Barrier)
  – **WARNING** – This type of installation is NOT INTRINSICALLY SAFE. Do not connect power directly to the meter in Hazardous locations.
  – Consult National, State, and Local codes for further definition of Hazardous locations.
900CDP to OPW C/OPT or FIT500 FMS Contact Closure

SW1 Settings on C/OPT and FIT500 PCM PC Board:
Set switch 3 to CLOSED (Passive Pulser)
Set switch 4 to OPEN (Electronic Pulser)
WARNING – This type of installation is NOT INTRINSICALLY SAFE. Do not connect power directly to the meter in Hazardous locations.

Consult National, State, and Local codes for further definition of Hazardous locations.

SW1 Settings on C/OPT and FIT500 PCM PC Board:
Set switch 3 to CLOSED (Passive Pulser)
Set switch 4 to OPEN (Electronic Pulser)
MultiForce FF814 FMS

- **900CDP Diagrams** (Uses Barrier)
  - Contact Closure

- **900CDPX Diagram** (No Barrier)
  - WARNING – This type of installation is NOT INTRINSICALLY SAFE. Do not connect power directly to the meter in Hazardous locations.
  - Consult National, State, and Local codes for further definition of Hazardous locations.
There are no DIP Switches that need to be set on the MultiForce FF814 for the pulsers.
There are no DIP Switches that need to be set on the MultiForce FF814 for the pulsers.

WARNING – This type of installation is NOT INTRINSICALLY SAFE. Do not connect power directly to the meter in Hazardous locations.

Consult National, State, and Local codes for further definition of Hazardous locations.

Position 1 on TB1 in TOP CABINET. This is not on the Relay Board.

Terminal Block in 900CDPX Meter
Gasboy TopKat FMS

- **900CDP Diagrams** (Uses Barrier)
  - Contact Closure

- **900CDPX Diagram** (No Barrier)
  - WARNING – This type of installation is NOT INTRINSICALLY SAFE. Do not connect power directly to the meter in Hazardous locations.
  - Consult National, State, and Local codes for further definition of Hazardous locations.
There are no DIP Switches that need to be set on the TopKat for the pulsers.

**Terminal Block in TopKat**

- **Pulser 1 Connections**: Terminals 19, 20, 21, 14
- **Pulser 2 Connections**: Terminals 16, 15

- **Position 3 on IS Barrier**
- **Position 1 on IS Barrier**
WARNING – This type of installation is NOT INTRINSICALLY SAFE. Do not connect power directly to the meter in Hazardous locations.

Consult National, State, and Local codes for further definition of Hazardous locations.

There are no DIP Switches that need to be set on the TopKat for the pulsers.

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Terminal Block in TopKat

- 19
- 20
- 21
- 16
- 14
- 15

Pulser 1 Connections

Pulser 2 Connections

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Terminal Block in 900CDPX Meter

- WHITE (SIGNAL)
- BLACK (COMMON)
- RED (+V)
Gasboy Islander PLUS FMS

• 900CDP Diagrams (Uses Barrier)
  – Contact Closure

• 900CDPX Diagram (No Barrier)
  – WARNING – This type of installation is NOT INTRINSICALLY SAFE. Do not connect power directly to the meter in Hazardous locations.
  – Consult National, State, and Local codes for further definition of Hazardous locations.
There are no DIP Switches that need to be set on the TopKat for the pulsers.

### 4 Pump Islander PLUS Pulser Terminal Block Connections

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<th>+12V</th>
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### 8 Pump Islander PLUS Pulser Terminal Block Connections

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**900CDPX to Gasboy Islander PLUS FM**

**WARNING** – This type of installation is NOT INTRINSICALLY SAFE. Do not connect power directly to the meter in Hazardous locations.

Consult National, State, and Local codes for further definition of Hazardous locations.

There are no DIP Switches that need to be set on the TopKat for the pulsers.

### 4 Pump Islander PLUS Pulser Terminal Block Connections

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Computrol FMS

• 900CDP Diagrams (Uses Barrier)
  – Contact Closure

• 900CDPX Diagram (No Barrier)
  – WARNING – This type of installation is NOT INTRINSICALLY SAFE. Do not connect power directly to the meter in Hazardous locations.
  – Consult National, State, and Local codes for further definition of Hazardous locations.
SW5 and SW6 settings on Pump
Control Board:
Set switch 1 On, switch 2 Off, and
switch 3 On

Computrol Pulser
Connection Block
J5 – Pump 1
J7 – Pump 2

Position 1 on IS Barrier
Position 3 on IS Barrier
**WARNING** – This type of installation is NOT INTRINSICALLY SAFE. Do not connect power directly to the meter in Hazardous locations.

Consult National, State, and Local codes for further definition of Hazardous locations.

**SW5 and SW6 settings on Pump Control Board:**
Set switch 1 On, switch 2 Off, and switch 3 On
CardMaster FMS

- **900CDP Diagrams (Uses Barrier)**
  - Contact Closure

- **900CDPX Diagram (No Barrier)**
  - WARNING – This type of installation is NOT INTRINSICALLY SAFE. Do not connect power directly to the meter in Hazardous locations.
  - Consult National, State, and Local codes for further definition of Hazardous locations.
900CDP to CardMaster FMS Contact Closure

Dip Switch Settings:
None

Position 1 on IS Barrier

Position 3 on IS Barrier
WARNING – This type of installation is NOT INTRINSICALLY SAFE. Do not connect power directly to the meter in Hazardous locations.

Consult National, State, and Local codes for further definition of Hazardous locations.

DIP Switch Settings:
None

330 Ohm 1 Watt or Equivalent Pull-Up Resistor Between + and P

Terminal Block in 900CDPX Meter
Revisions

• October 14, 2014
  – Added the C Series letter to the model numbers due to 8 bolt meter design.

• December 11, 2014
  – Added the Gasboy Islander PLUS wiring diagrams.