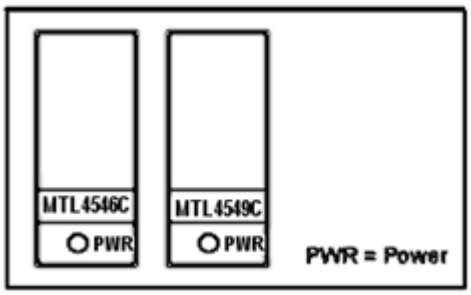
Figure 22.10 Analog Output - MTL4546C and MTL4549C LED indicators



22.5 GI/IS Analog Output IOTA Model CC-GAOX21

The model CC-GAOX21 Analog Output IOTA provides up to sixteen 4-20 mA output channels. This IOTA does not support redundancy and accepts only the dual-channel GI/IS isolator below:

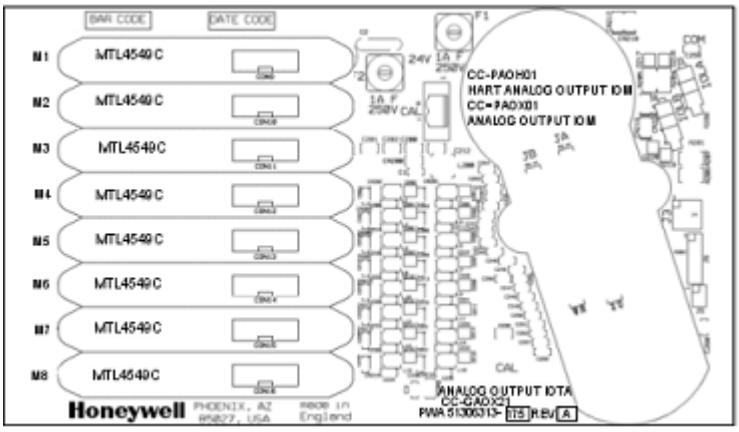
- MTL4549C - two channel HART® with open wire detection.
- MTL4599 - dummy, terminates unused connectors

Refer to GI/IS IOTA models for a complete list of supported Series C IOTA and their corresponding isolators.

- CC- GAOX21 Analog Output IOTA
- CC-GAOX21 Analog Output IOTA connection diagram
- Analog Output supported isolators

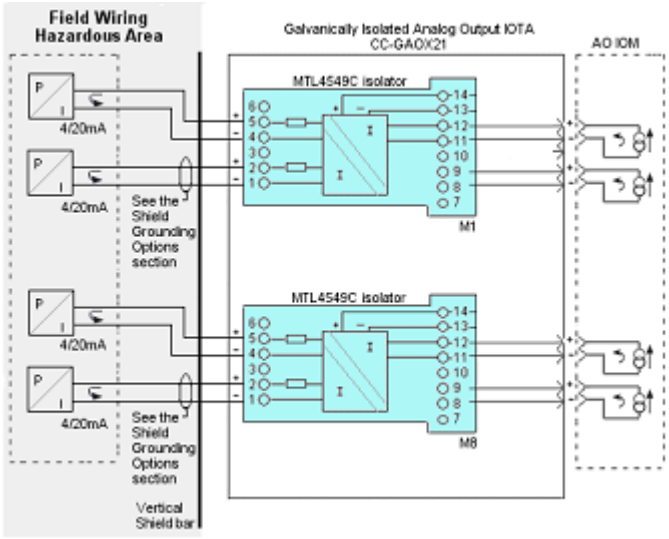
22.5.1 CC- GAOX21 Analog Output IOTA

Figure 22.11 CC-GAOX21 Analog Output IOTA



22.5.2 CC-GAOX21 Analog Output IOTA connection diagram

Figure 22.12 CC-GAOX21 Analog Output IOTA connection diagram



22.5.3 Analog Output supported isolators

The following table defines important distinctions between the various isolators and the Analog Output IOTAs they support.

Table 22.3 AO IOTAs and their supporting isolators

Item	MTL4546C CC-GAOX11	MTL4549C CC-GAOX11 CC-GAOX21
Power requirement, Vs	35mA at 24V	70mA at 24V
Maximum power dissipation within isolator (with 20mA signal)	0.8W at 24V	1.6W at 24V
Isolation	250V ac between hazardous area and safe/power supply circuits	250V ac between hazardous area and safe/power supply circuits
Temperature drift	<1.0µA/degrees C	<1.0µA/degrees C
Safety description	Vo=28V Io=93mA Po=651mW Um = 253V rms or dc	Vo=28V Io=93mA Po=651mW Um = 253V rms or dc

22.6 24 Vdc Digital Input GI/IS IOTAs

The galvanically isolated Digital Input (DI) IOTAs isolate up to thirty-two 24V signals that allows