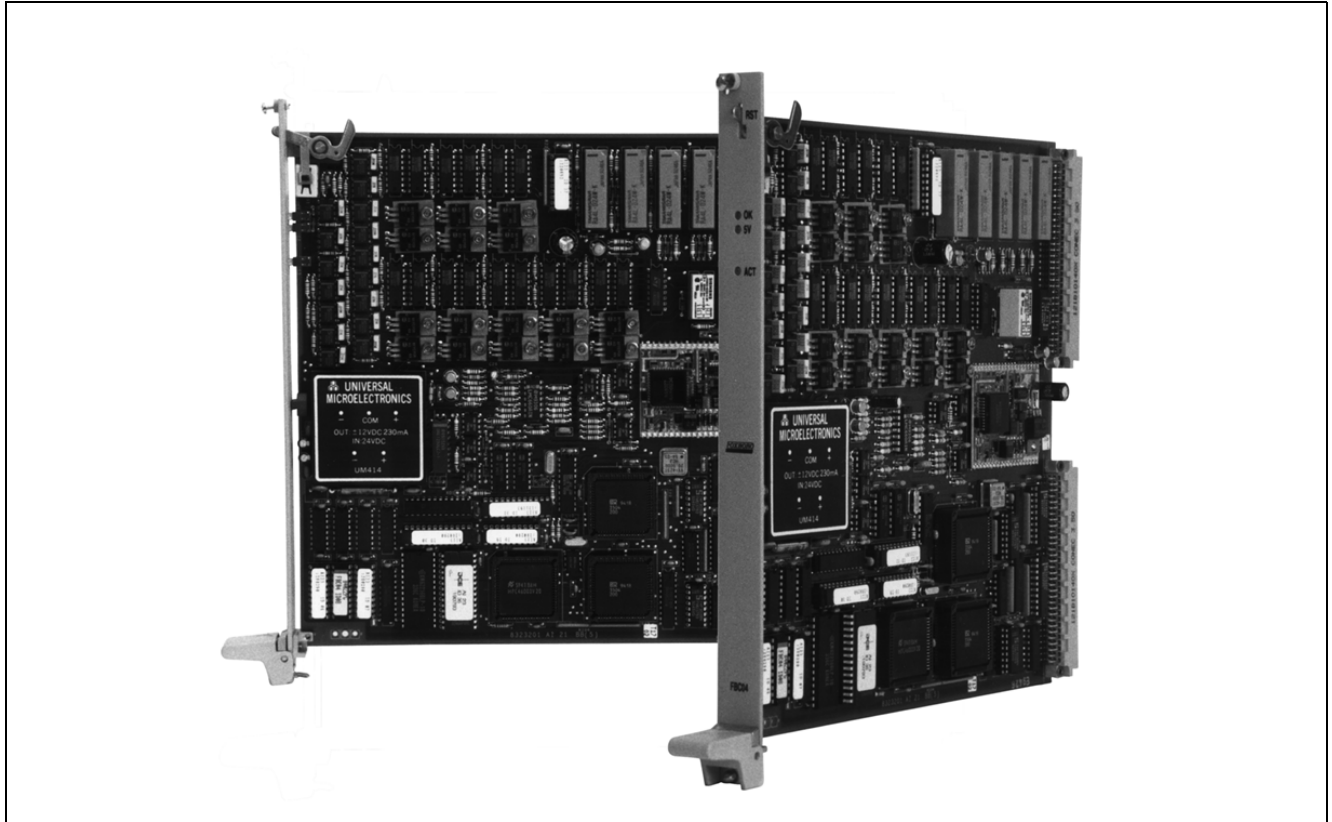


I/A Series[®] Hardware

16 Channel Non-Isolated Analog Output Fieldbus Card

0 to 20 mA (FBC04)



The I/A Series Non-Isolated Analog Output Fieldbus Card, FBC04, consists of 16 single-ended analog output channels for 0 to 20 mA field circuits. Each channel drives an external load and produces a 0 to 20 mA output. The FBC04 performs signal conversions required to interface to the I/A Series Fieldbus via the Fieldbus Processor 10 (FBP10).

The FBC04 mounts directly into a single slot of the Industrial Chassis 12 (ICH12) and Industrial Chassis 19 (ICH19). Signal wiring is via the discrete wire type, plug type, or ring lug type Termination Cable Assembly (TCA) connected at the rear of the chassis.

The FBC04 is non-isolated. The card and all of the channels on the card are referenced to ground. The FBC04 card supports redundancy.

FUNCTIONAL SPECIFICATIONS

Output

OUTPUT CHANNELS
16 Non-Isolated
OUTPUT RANGE (EACH CHANNEL)
0 to 20 mA dc
OUTPUT LOAD (MAXIMUM)
900 Ω
ACCURACY (AT 27 °C)
 $\pm 0.2\%$
TEMPERATURE DRIFT
0.01% per K°
RESOLUTION (10 BIT)
0.15%

Output (Cont.)

CONVERSION TIME
25 μ s (Approximate)

Power Requirements

INPUT VOLTAGE
+5.25 V dc at 0.65 A
+24 V dc at 0.50 A
CONSUMPTION
15.4 W (Maximum)
HEAT DISSIPATION
9.4 W (Maximum)

ENVIRONMENTAL SPECIFICATIONS

Operating

TEMPERATURE
0 to +70 °C (32 to +158 °F)
RELATIVE HUMIDITY
20 to 80% (Noncondensing)

Transportation and Storage

TEMPERATURE
-40 to +70 °C (-13 to +158 °F)
RELATIVE HUMIDITY
20 to 80% (Noncondensing)

Contamination

Class G1 (Mild) as defined in ISA Standard, S71.04

PHYSICAL SPECIFICATIONS

Mounting

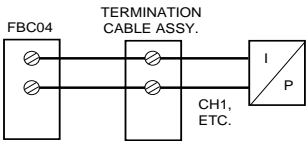
ICH12, ICH19 Chassis, single I/O slot

Mass

0.7 kg (1.5 lb)

Field Termination Connections

Discrete Wires from External Termination Assemblies to the Output Adaptor. The TCAs are discrete wire type, plug type, or ring lug type.



TERMINOLOGY

- Non-isolated - Each channel is referenced to ground and the card itself is referenced to ground.
- Group-isolated - Electrically separate card-to-card but not channel-to-channel on the same card.
- Isolated - Each channel is electrically separated from any other channel, card, group, building, site, etc.

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