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### Introduction

PCL-726 and PCL-728 are analog output cards with 12-bit analog output channels. You can individually configure each channel to any of the following ranges: 0–5 V, 0–10 V, ±5 V, ±10 V and 4–20 mA current loop (sink). Designed for use in industrial environments, these cards are ideal, economical solutions for applications that require multiple analog outputs or current loops.

### Specifications

#### Analog Output

- **Channels**
  - PCL-726: 6
  - PCL-728: 2 isolated
- **Resolution**
  - 12 bits, double buffered
- **Output Rate**
  - Static update
- **Reference Voltage**
  - Internal: ±5 V (±0.05 V)
  - -10 V (±0.05 V)
  - External: DC or AC, ±10 V max.
- **Output Range**
  - (Software programmable)
  - Internal Reference
    - Bipolar (V)
    - ±5
    - Unipolar (V)
    - 0–5, 0–10
  - External Reference
    - Bipolar (V)
    - ±10

- **Isolation Protection**
  - 500 VDC (PCL-728)
- **Driving Capability**
  - 5 mA
- **Output Impedance**
  - 0.1 Ω
- **Operation Modes**
  - Software polling
- **Accuracy**
  - 0.012%
- **Excitation Voltage**
  - 8–36 V for 4–20 mA current loop

#### Digital Input (PCL-726)

- **Channels**
  - 16
- **Compatibility**
  - 5 V TTL
- **Input Voltage**
  - Logic 0: 0.8 V max.
  - Logic 1: 2.0 V min.

#### Digital Output (PCL-726)

- **Channels**
  - 16
- **Compatibility**
  - 5 V TTL
- **Output Voltage**
  - Logic 0: 0.5 V, Logic 1: 2.4 V
- **Output Capability**
  - Sink: 0.5 V @ 0.4 mA max.
  - Source: 2.7 V @ 50 mA max.

#### General

- **Bus Type**
  - ISA
- **I/O Connectors**
  - PCL-726: 2 x DB9 female connectors
  - PCL-728: 2 x 20-pin box header
- **Dimensions (L x H)**
  - PCL-726: 340 x 100 mm (13.4” x 3.9”)
  - PCL-728: 184 x 119 mm (7.25” x 4.7”)
- **Power Consumption**
  - PCL-726: 5 V @ 500 mA typical, 1 A max.
  - 12 V @ 80 mA typical, 110 mA max.
  - 12 V @ 60 mA typical, 90 mA max.
  - PCL-728: 5V @ 800 mA max.
- **Operating Temperature**
  - 0–50°C (32–122°F)
- **Storage Temperature**
  - 0–65°C (32–149°F)
- **Operating Humidity**
  - 5–95% RH, non-condensing (refer to IEC 68-2-3)

### Features

- Independent analog output channels
- 12-bit resolution double-buffered D/A converter
- Multiple voltage ranges: ±10 V, ±5 V, 0–5 V, 0–10 V and 4–20 mA current loop (sink)
- 16 digital input and 16 digital output channels (PCL-726)
- Two DB9 connectors for easy wiring (PCL-728)

### Ordering Information

- **PCL-726**
  - 12-bit, 6-ch AO ISA Card w/ Digital I/O
- **PCL-728**
  - 12-bit, 2-ch Isolated AO ISA Card
- **PCL-10120-1**
  - 20-pin Flat Cable, 1 m
- **PCL-10120-2**
  - 20-pin Flat Cable, 2 m
- **PCLD-780**
  - Screw Terminal Board w/ Two 20-pin Flat Cables
- **PCLD-782**
  - 16-ch Isolated DI Board w/ 1m 20-pin Flat Cable
- **PCLD-785**
  - 16-ch Relay Board w/ One 1m 20-pin Flat Cable
- **PCLD-880**
  - Wiring Board w/ Two 20-pin Flat Cables & Adapter
- **ADAM-3909**
  - DB9 DIN-rail Wiring Board
- **ADAM-3920**
  - 20-pin DIN-rail Flat Cable Wiring Board
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