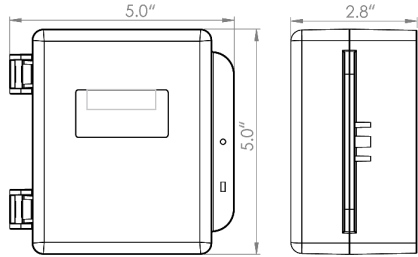


# LNK-AO Analog Output

FIXED SYSTEMS

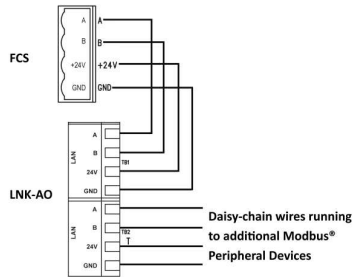


## TECHNICAL DRAWING



## WIRING DIAGRAMS

### 4-Wire VDC to FCS Controller

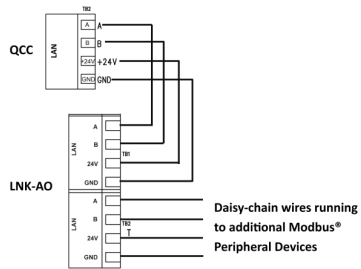


The LNK-AO Analog Output peripheral device adds four channels of 4 - 20 mA analog output to a Modbus® RS-485 network configured with a QCC Quad Channel Controller or an FCS Flexible Control System Controller. The LNK-AO is designed to send a 4 - 20 mA signal to up to four devices such as a data / trend / logging system, a BAS or DDC or up to four VFDs.

The four 4-20 mA output signals are current sourced and can be independently scaled using the menu system on the controller. Each output can be assigned to an individual sensor or to a group of sensors through zoning configured within the controller.

Communication with the controller is monitored and if interrupted a pre-configured default current will be output in each channel.

### 4-Wire VDC to QCC Controller



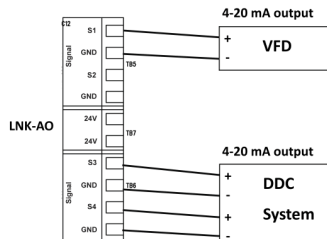
## KEY FEATURES

- » Four 4-20 mA output channels
- » Power LED indicator
- » Modbus® RS-485 RTU communication protocol
- » Scaling and zoning capabilities supported by the controller
- » Configurable default settings for any interruption in communication
- » Standard water / dust tight, corrosion resistant enclosure (drip proof)

## APPLICATIONS

- » Parking Garages
- » Vehicle Repair Shops
- » Manufacturing Plants
- » Ice Arenas
- » Commercial Indoor Swimming Pools
- » Food Processing Plants
- » ... and many more

### Wiring to VFD and Control Panel



# LNK-AO Analog Output

## TECHNICAL SPECIFICATIONS

### MECHANICAL

|           |   |
|-----------|---|
| Enclosure | ABS / Polycarbonate, corrosion resistant, drip proof; Copper coated interior to reduce RF interference. |
| Weight    | 400 g (14 oz)   |
| Size      | 127 mm x 127 mm x 71 mm<br>(5.0 x 5.0 x 2.8 inches)   |

### USER INTERFACE

|           |                               |
|-----------|-------------------------------|
| Indicator | LED green indicator for power |
|-----------|-------------------------------|

### ENVIRONMENTAL

|                       |                               |
|-----------------------|-------------------------------|
| Operating Temperature | -20°C to 40°C (-4°F to 104°F) |
| Humidity              | 15 to 90% non-condensing      |

### ELECTRICAL

|                    |   |
|--------------------|---|
| Power Requirements | 24 VDC, 3W, Class 2 (from daisy-chain wire run from controller)         |
| Wiring             | 4-wire VDC, 16 gauge, 4-conductor shielded network wiring (daisy-chain) |
| Circuit            | Configurable microprocessor   |
| Fuses              | Thermal, resetting  |

### INPUT / OUTPUT

|                |  |
|----------------|--|
| Outputs        | Four 4 - 20 mA (2 - 10 volts is obtainable using a 500 ohm resistor) |
| Communications | Modbus® RS-485   |

### CERTIFICATION

|              |   |
|--------------|---|
| Conforms to: | CSA-C22.2 No. 205-12, CSA-C22.2 No. 61010-1-12<br>UL508 (Edition 17):2007, UL 61010-1 (Edition 3) |
| Conforms to: | EMC Directive 2004/108/EC<br>EN 50270:2006, Type 1, EN61010                                       |
| Conforms to: | FCC. This device complies with Part 15 of the FCC Rules.  |

## COMPATIBLE CETCI PRODUCTS

|  |                              |
|--|------------------------------|
| QCC Quad Channel Controller - can accommodate one LNK-AO device  | <b>QCC-M</b><br><b>QCC-B</b> |
| FCS Flexible Control System Controller - can accommodate up to a total of 60 analog outputs (up to a maximum of 15 LNK-AO devices, number changes if internal AO options are installed on the FCS) | <b>FCS-M</b><br><b>FCS-B</b> |

## PRODUCT CODES

|               |  |
|---------------|--|
| <b>LNK-AO</b> | Analog Output Peripheral Device (4 channels) |
|---------------|--|

## ACCESSORIES

|                      |   |
|----------------------|---|
| <b>SCS-8000-RSG</b>  | Metal protective guard, small, 16 gauge, galvanized metal guards for standard small enclosure |
| <b>RPS-24VDC</b>     | Remote Power Supply, 24VDC output   |
| <b>UPS-MGE-81600</b> | Power backup battery system, 120VAC input/output  |

