LNK-AO Analog Output

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.

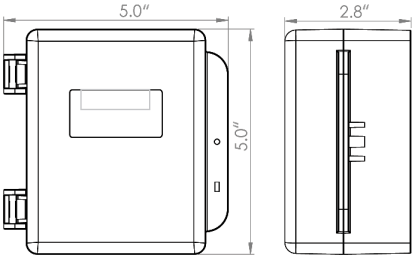
KEY FEATURES

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

APPLICATIONS

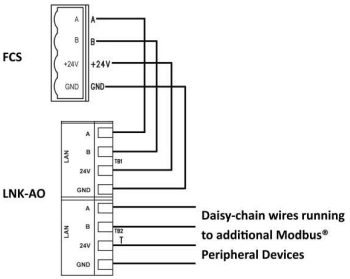
» Parking Garages
» Vehicle Repair Shops
» Manufacturing Plants
» Ice Arenas
» Commercial Indoor Swimming Pools
» Food Processing Plants
» ... and many more

TECHNICAL DRAWING

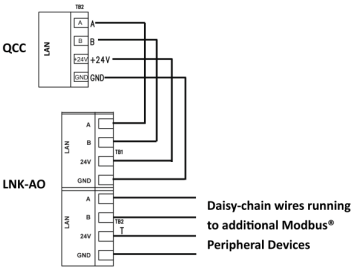


WIRING DIAGRAMS

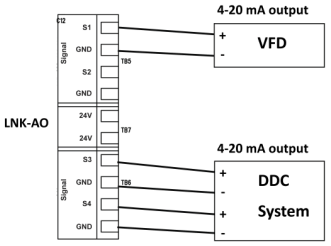
4-Wire VDC to FCS Controller



4-Wire VDC to QCC Controller



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 (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 UL508 (Edition 17):2007, UL 61010-1 (Edition 3)
Conforms to: EMC Directive 2004/108/EC 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	**QCC-M** **QCC-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)	**FCS-M** **FCS-B**

PRODUCT CODES

LNK-AO	Analog Output Peripheral Device (4 channels)

ACCESSORIES

SCS-8000-RSG	Small galvanized metal, 16 gauge protective guard
RPS-24VDC	Remote Power Supply, 24 VDC output
UPS-MGE-81600	Power backup battery system, 120VAC input/ output

Modbus® is a registered trademark of Gould Inc. Corporation.