



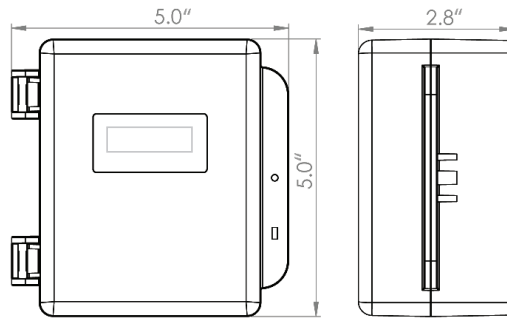
GAS DETECTION PERIPHERAL DEVICES DATASHEET

LNK-AI Analog Input (for FCS)

FIXED SYSTEMS



TECHNICAL DRAWING



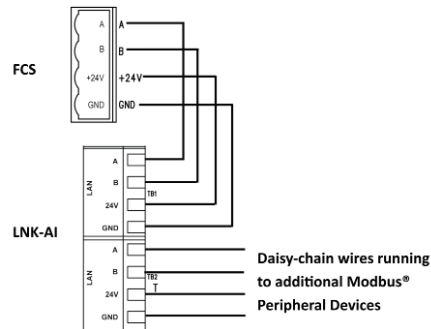
WIRING DIAGRAMS

The LNK-AI Analog Input peripheral device adds four channels of 4 - 20 mA or 0 - 10 volt analog inputs to a Modbus® network configured with an FCS Flexible Control System Controller.

The LNK-AI is designed to receive an analog signal from one to four transmitters and communicates back to the FCS using Modbus® RS-485. The FCS monitors the connection and will indicate a loss of communications.

Ideal for large applications to create an efficient distribution network of specialized gas detection devices with fewer wires running directly from the controller.

4-Wire VDC to FCS Controller



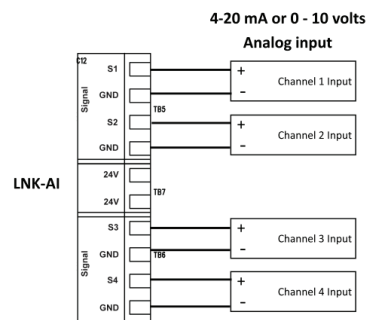
KEY FEATURES

- » Four 4-20 mA input channels
- » Power LED indicator
- » Modbus® RS-485 RTU communications 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

Analog Input Wiring Connections





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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
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ENVIRONMENTAL

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

ELECTRICAL

Power Requirements	24 VDC, 1W, 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

Inputs	Four 4-20 mA or 0 - 10 volts (current or voltage jumper selection)
Communications	Modbus® RS-485 RTU

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

The LNK-AI works with all FCS models. Refer to the datasheet for each model for more information.

PRODUCT CODES

LNK-AI	Analog Input Peripheral Device (4 channels)
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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



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