LNK-AI Analog Input (for FCS)

FIXED SYSTEMS
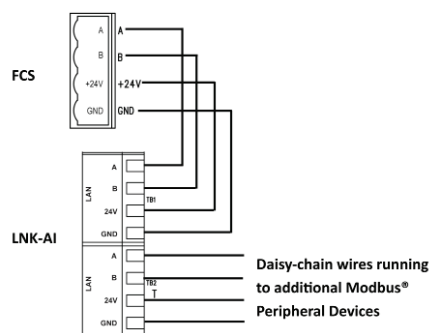
TECHNICAL DRAWING

5.0″   2.8″   5.0″
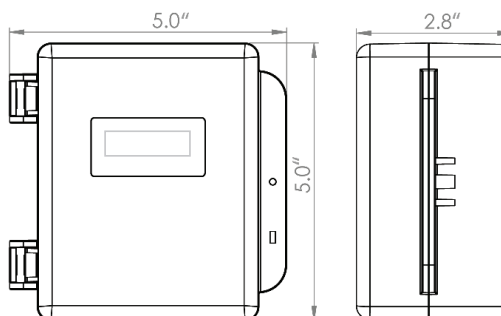
WIRING DIAGRAMS

4-Wire VDC to FCS Controller

Daisy-chain wires running to additional Modbus® Peripheral Devices

Analog Input Wiring Connections

4-20 mA or 0 - 10 volts Analog input

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 FSC 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.
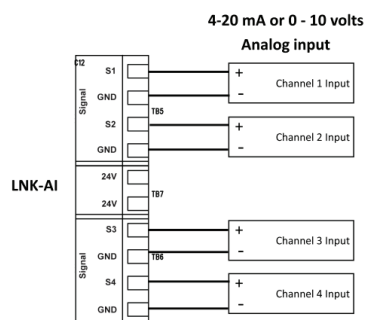
KEY FEATURES

» 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

LNK-AI Analog Input (for FCS)

Critical Environment Technologies™

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	-20ºC to 40ºC (-4ºF to 104ºF)
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)

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

FIXED SYSTEMS

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measuring up

Distributed by:
Kenelec Scientific Pty Ltd
1300 73 22 33
sales@kenelec.com.au
www.kenelec.com.au

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