

PRODUCT OVERVIEW



The X-22s has eight precision analog inputs that can be configured for various voltage ranges and 4-20mA sensors. The X-22s employs a 16-bit SAR A/D converter and can make both single or differential input measurements.

A 5.0V reference output can be used to power potentiometers or other resistance sensing sensors. The X-22s is ideal for measuring precision analog voltages in industrial environments.

One or more X-22s expansion modules can be connected to an X-400 controller with a ribbon cable. The ribbon cable provides both power and communications to the expansion modules.

Other expansion modules with different I/O combinations are also available.

Features:

- Eight precision analog inputs
- Input Voltage Ranges:
 - ±1.28V, ±2.56V, ±5.12V, ±10.24V, 4-20mA
- Removable terminal connector
- Powered through expansion bus no separate power supply connections are required
- High input impedance
- Great for monitoring applications including:
- Temperature
- Electrical Current
- Pressure
- Fluid Levels
- and much more...

Analog Input 1	-5.12	
Analog Input 2	-5.12	
Analog Input 3	-5.12	
Analog Input 4	-6.12	
Analog Input 5	6.12	
Analog Input 6	5:12	
Analog Input 7	-5:12	

View X-22s inputs on the X-400's Dashboard

#I/O SETUP

Name	Analog Input #	Mode	Edit
Analog Input 1	1	Analog Single Enc	Edit
analog Input 2	2	Analog Single Enc	Edit
Analog Input 3	3	Analog Single Enc	Edit
Analog Input 4	4	Analog Single Ent	Edit
Analog Input 5	5	Analog Single Enc	Edit
Analog Input 6	6	Analog Single Enc	Edit
Analog Input 7	7	Analog Single Enc	Edit
Analog Input 8	8	Analog Single Enc	Edit

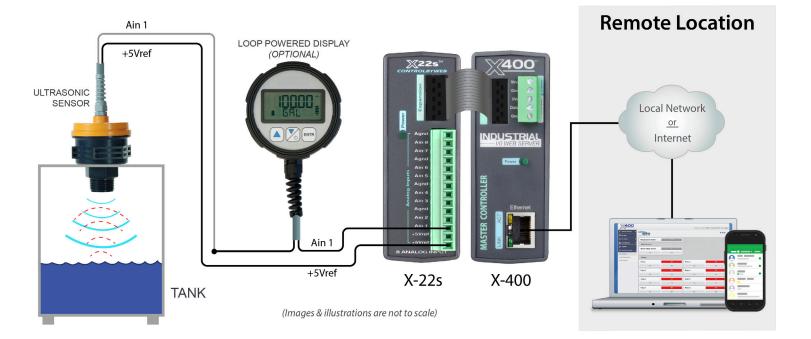
Editing I/O on the X-400





APPLICATIONS & SPECS

Level Monitoring



Models:

• X-22s

Power Requirements

- Voltage: 9-28 VDC ((supplied via the X-400 controller, 24V recommended)
- Max Current: See table below for typical values at 25°C.

Power Supply	Current	Current
	(Voltage mode)	(Current mode)
9 VDC	20 mA	750 mA
12 VDC	16 mA	555 mA
24 VDC	12 mA	285 mA

Analog Inputs

- Number of Inputs: 8
- Type: Single-ended, differential, 4-20mA (0-20mA), or a combination
- Input Range: ±1.28V, ±2.56V, ±5.12V, ±10.24V, 4-20mA
- **Note that inputs have high impedance so input range can easily be adjusted using external resistors. Example: 0 to 48 Volts
- Resolution: 16-bit, SAR

Reference Output

- Voltage: 5.00V
- Accuracy: 0.04%
- Temperature Coefficient: 3ppm/°C Max
- Current: 25mA max*
- *Maximum current from the reference may be increased if the environmental temperature is decreased. See users manual for more information.

Connectors

- Inputs: 14-Position, 3.81mm, Removable
- Expansion Connector: Ribbon cable, 10-conductor, polarized, 2x5-position, 0.100" pitch Provides power and communications for expansion modules (Communications: RS-485)

LED Indicators

- Number of LEDs: 1
- Power on

Physical

- Size:
- 1.41in (35.7mm) wide
- 3.88in (98.5mm) tall
- 3.1in (78mm) deep (not including connector)
- Weight: 5 oz. (142 g)
- Enclosure Material: Lexan 940 Polycarbonate Plastic
- Enclosure Flame Rating: UL94 V0

Environmental

- Operating Temperature*: 0°C to 50°C (32°F to 122°F)
- Storage Temperature: -40°C to 85°C (-40°F to 185°F)
- Humidity: 5-95%, non-condensing
- Indoor use or NEMA-4 protected location
- *Max operating temperature may be increased at the expense of current through the 5V reference. See the X-22s users manual for more details.

Electromagnetic Compliance

- IEC CISPR 22, CISPR 24
- FCC 47CFR15 (Class B)
- EN55024 ITE Immunity (2010)
- EN55022 Emissions (2010)

Product Safety Compliance

• IEC 61010-1

CE

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