EX1401 *Quick Start Guide*

VTI Instruments

AMETEK®

82-0156-100 Rev A

Manual and driver available on DVD or at www.vtiinstruments.com.
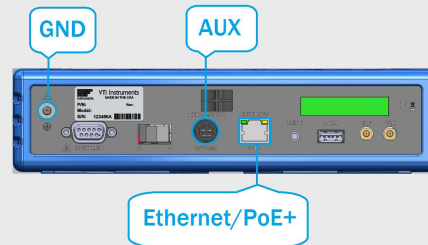
1. Unpack Box

Open and unpack the box of the EX1401. The following items should be inside:
- EX1401 (70-0626-000)
- Quick Start Guide (This Document)
- VTI CD/DVD (72-0030-000)
- AUX Power Adaptor (56-0739-000)
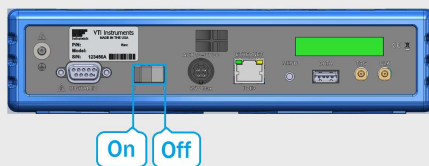- GND Cable (53-0070-072)

2. Connect to Power

Connect the Ethernet cable to the back of the EX1401. If your Ethernet switch is not PoE+, also connect the AUX power cord. Connect the GND cable from the unit to Earth GND.

GND AUX

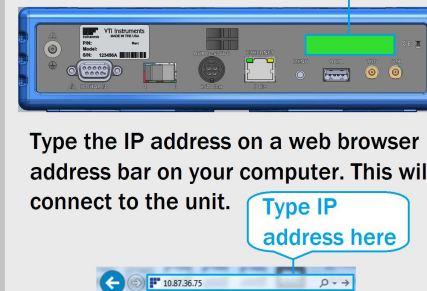Ethernet/PoE+

3. Power On

Locate the power switch of the EX1401. Turn it on.

On Off

4. Insert Thermocouple

Apply a themocouple (TC) or voltage signal using a mini TC plug to the front of the EX1401.

Apply Input Signal

5. Connect to WebSFP

Wait for the unit to fully boot. Then, locate the IP address of the unit on the LCD.

LCD

Type the IP address on a web browser address bar on your computer. This will connect to the unit.

Type IP address here

10.87.36.75

Select SFP Cards from the menu.

Index
SFP Cards — Click SFP
USB Storage
Network Configuration

Click inst0

Click on inst0.

Device	Model	Revision	Serial	Description	Resource
inst0	EX1401	1.12.7-r36911-j1128	111111	Isolated Thermocouple Measurement Instrument	TCPIP::10.87.37.18::inst0::INSTR

The WebSFP should now open and should look like this:

6. Acquire Data

1. Select the correct channel(s)
2. Select the function type
3. Select the correct TC type for temperature
4. Set sample rate
5. Click Initiate Measurement
6. Wait for the State box to change from Measuring to Idle
7. Choose Download Records From FIFO from the dropdown menu under Plot Type
8. Click Plot Next FIFO Record

1 **2** **3**

	Enabled	Function	Range	TC Type
ALL		Temperatu ▼	100mV ▼	T ▼
CH1	✓	Temperatu ▼	100mV ▼	T ▼
CH2		Temperatu ▼	100mV ▼	T ▼

4

Downsampling	Sample Rate	Span
1	10000.0	4530.0

Data plotted here

7

Data Plot

Plot Type	Draw Points
Download Records From FIFO ▼	✓

Seconds (+144)

CH1

8 Plot Next FIFO Record | Clear Plotted Records | Save Plotted Records

6 Measurement

State	FIFO Records	Acquired Records	Records Per Trigger	Data Format
Idle	0	1	1	EUReal32 ▼

Start Source	Arm Count	Arm Delay	Trigger Count	Trigger Delay	Trigger Holdoff
Immediate ▼	1	0.0	1	0.0	-1

5 Initiate Measurement | Software Start | Software Arm | Software Trigger

Download Records All
1 Download CSV