# **ENVIROTRAK® V-L I/O PORT EXPANDERS**

## **GENERAL DESCRIPTION**

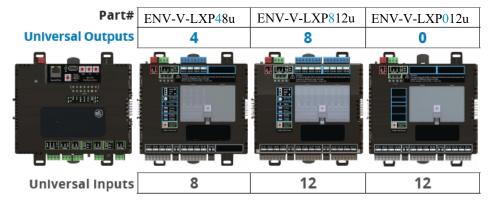
The ENV-V-LXP expanders are capable of controlling Laboratory equipment with high I/O point counts (up to 180) through expandable I/O boards. The I/O expanders deliver input and output capacity to the powerful ENV-V-LCPU controller. Up to nine I/O expanders can be added to an ENV-V-LCPU controller. I/O expanders are designed for flexible panel configurations. They are DIN rail or screw-tab mountable and can be mixed and matched to meet the I/O requirements of the equipment being controlled. The expanders can be mounted directly to the ENV-V-LCPU controller or remotely mounted up to 500 feet away.

### **Key Features and Benefits**

#### **Hardware Features**

- Expands the ENV-V-LCPU processor to support up to 180 I/O points
- Backplane mounting via screw tab or DIN rail mounting
- Removable screw terminals for I/O connections
- ♦ Hand-Auto-Off switches on all output channels
- Software selectable input configuration no jumper
- Color-coated I/O and easy to read labeling minimizes wiring errors
- ♦ LEDs for each output for easy identification of output status whether configured as an AO or DO
- LEDs for status indicators for Power, Run, Error, Xnet TX and Xnet Rx





Support for up to 9 I/O expanders (180 points)



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#### Title: ENVIROTRAK® V-L I/O PORT EXPANDERS

Model Number: ENV-V-LXP

Drawing Number: ENV-V-LXP DS

7/28/21

Date:

Rev. A

Specifications:				
<u>Power</u>	24 Vac ±10%, 50-60 Hz, 50 VA, 26 Vdc ±10%, 15 W, Single Class 2 source only, 100 VA or less			
<b>Operating Range</b>	-40° to 158° F (-40° to 70° C); 10 to 95% relative humidity, non-condensing			
Communication Ports	are powered by external power supplie	ft (610 m) communication for wired remote ENV-V-LXP expanders that plies nector that provides communication and power to a directly connected		
<u>Inputs</u>		r 0-5 VDC, 0-10 VDC, 0-20 mA, thermistor (5k, 10k Type II), Salco), and Dry Contact. Inputs are 16 bit A/D and support up to 40 pulses per		
	ENV-V-LXP48u: 8 inputs ENV-V-LXP812u: 12 inputs ENV-V-LXP012u: 12 inputs			
<u>Outputs</u>	Outputs can be set as analog or binary outputs. Analog outputs can be used for 0-10 VDC, 0-20 mA (12 bit D/A). Binary outputs have a built-in relay and can be used to switch external devices or relays up to 1A, 30Vac/Vdc HAO (hand/auto/off) switches are on each output, including potentiometers for manual adjustment of analog outputs.			
	ENV-V-LXP48u: 4 outputs ENV-V-LXP812u: 8 outputs			
Status Indicators	LEDs indicate status of communications, system state (running or errors), outputs, and power			
Protection_	Two fast acting, 5mm x 20mm glass fuses: • A 2A fuse for the ENV-V-LCPU's power • A 4A fuse for the I/O bus edge connector The power and network ports comply with the EMC requirements EN5049-5-2			
<u>Compliance/Listing</u>	<ul> <li>United States of America: FCC compliant to Title CFR47, Chapter 1, Subchapter A, Part 15, Subpart B, Class A; UL Listed to UL 916, PAZX, Energy Management Equipment</li> <li>Canada: Industry Canada Compliant, ICES-003, Class A cUL Listed UL 916, PAZX&amp;, Energy Management Equipment</li> <li>Europe: Mark EN50491-5-2:2009; Part 5-2: EMC requirements for HBES/BACS used in residential, com mercial and light industry environment EN50491-3:2009, Part 3: Electrical safety requirements for Home and Building Electronic Systems (HBES) and Building Automation and Control Systems (BACS) Low Voltage Directive: 2014/35/EU RoHS Compliant: 2011/65/EU</li> <li>Australia and New Zealand: C-Tick Mark, AS/NZS 61000-6-3</li> </ul>			
<u>Physical</u>	DIN rail or Screw mounting. Minimum panel depth: 2.75 in. (7 cm) Dimensions Overall: 7.1 in. (18.03 cm) x 6.95 in. (17.65 cm), Depth: 2.09 in. (5.31 cm), Weight: 1.0 lb. (0.45 kg)			
	Screw Mounting: 6.45 in. (16.38.cm), 4.1 in. (10.4 cm)			
<u>I/O Expander Support</u>	Support up to 9 expanders, ENV-V-L2	XP812u, ENV-V-LXP48u, ENV-V-LXP	012u	
LCS Inc.		Title: ENVIROTRAK® V-L I/O PORT EXPANDERS Model Number:		
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