



**New!**

# Viewpoint Express

**Low-cost HMI for ICL SCADA Controllers and smart I/O modules**

- Remote HMI for:
  - Pinnacle and EtherLogic controllers
  - Ascent, Sprite & Solaras I/O modules
- No programming needed – configuration in controller/module
- 4 line x 20 characters + graphics backlit LCD display
- High-speed Ethernet port standard
- Optional RS-232 interface
- Secure AES encrypted communications
- Low-power and smart power management
- Panel-mount, or surface-mount with included outlet-box enclosure
- 3-year warranty on parts and labor



Shown with included outlet-box enclosure

**Viewpoint Express** – A low-cost HMI panel for easy access to levels, flows, totals, setpoints and configuration parameters, over Ethernet or RS-232.

- Eliminate the need for a laptop to view or set parameters in the field
- Provides remote access in SCADA systems, on the factory floor, or even over the Internet!
- Low-power DC operation for solar and battery-backed applications

### No programming & Remote Updates

Viewpoint Express uses the standard configuration tools built into ICL SCADA controllers and smart I/O modules. Screen updates over remote links are a snap! Simply re-download the controller program or adjust the HMI parameters on the smart I/O module web pages. No separate connection and download is required to the Viewpoint.

**Local Setup** – There are no special software tools or programs required. Setup the addressing, power saving, etc., without a computer.

**Secure Communications** – All Viewpoint communications is AES-128 encrypted, the standard recommended by the National Security Agency and used extensively for secure military, banking and other sensitive applications.



**Easy to read** - Viewpoint Express has a crisp wide-temperature LCD display, a configurable LED backlight and supports a double size font, making it one of the most readable HMIs in its class.

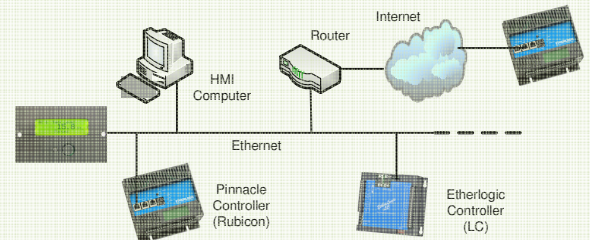
**Low Power**– Viewpoint Express can be optimized for battery-backed and solar power operation.

**Network Smart**– A single Viewpoint Express can be used to access multiple controllers and I/O modules. This can even extend across multiple media types (bridging from Ethernet to serial and wireless networks). For example, in a network of multiple Sprite RTUs (shown below), a single Viewpoint Express at any location can access any module in the system! This can eliminate the cost of driving from site to site.

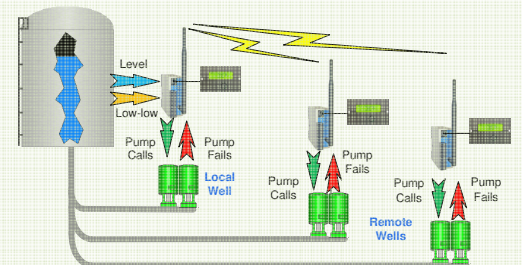
**Easy Installation** – Viewpoint Express panel mounts with two screws, or surface mounts in a “duplex” outlet box (included).

**Rugged Reliability** – Viewpoint Express has an operating temp range of -40C to 70C, and is backed by an industry leading 3-year factory parts and labor warranty.

*Access any controller on the Network with one (or more) Viewpoints, even over the Internet!*



*With a network of Sprite, Solaras or Ascent I/O modules, a Viewpoint at any location can access any Sprite in the network, bridging from Ethernet to the internal radio or serial port!*



## Viewpoint Express – Specifications

## Communications, Networking &amp; User Interface

<b>Ethernet</b>	10 BaseT
Device Support	All Pinnacle Series, EtherLogic Series and ICL-4300 Controllers. All Sprite, Solaras and Ascent Series I/O modules.
Security	128-bit AES encryption using SDX protocol

<b>Serial Port (option)</b>	RS-232 compatible
Data rate	1200 baud to 115K baud (115K recommended for best response)
Device Support	All Pinnacle Series, EtherLogic Series and ICL-4300 Controllers. All Sprite, Solaras and Ascent Series I/O modules.
Security	128-bit AES encryption

<b>Display</b>	122x32 Graphic LCD w/LED backlight (4 lines x 20 characters max. in character mode, 1X font)
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<b>Keyboard</b>	5 Axis "Navigation Switch" plus "Escape" pushbutton switch
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## General

<b>Watchdog Timers</b>	Communications – 3 seconds (message on screen when link is lost) CPU – Ensures "sanity" of internal processor operation with automatic reset to restore operation
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<b>Terminal Blocks</b>	Removable 2-position power connector, 3.5mm (0.138"), 12 to 22AWG
<b>Mounting</b>	Panel mount or in "duplex" outlet box (box supplied – Hubbel/Raco 7883 or equal) Must be installed within an enclosure. Not appropriate for direct exterior mounting (not sealed against water, oil, etc.)

<b>Dimensions</b>	(includes power terminal block, and communications and network connectors)
Ethernet only, panel mounted	3.6"W x 2.25"H x 1.1"D
Ethernet + RS-232, panel mounted	3.6"W x 2.25"H x 1.6"D
Either Version, in outlet box enclosure, without mounting tabs	3.6"W x 2.25"H x 3.5"D
Either Version, in outlet box enclosure, with mounting tabs	7.0"W x 2.25"H x 3.5"D

<b>Environment</b>	- 40°F (-40°C) to 158°F (70°C), 5%RH to 95% RH, non-condensing
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<b>Power</b>	10 to 30Vdc
Power Consumption (typical at 12Vdc input power):	
Ethernet ON, backlight ON:	105mA
Ethernet ON, backlight OFF:	80mA
Serial Operation, Ethernet OFF, backlight ON:	45mA
Serial Operation, Ethernet OFF, backlight ON:	20mA

<b>Warranty</b>	3 years, factory parts and labor
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## Represented by:

Industrial Control Links, Inc.  
www.iclinks.com  
Tel: 530-888-1800