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# E-ULT

## **Ultrasonic Level Transmitter**

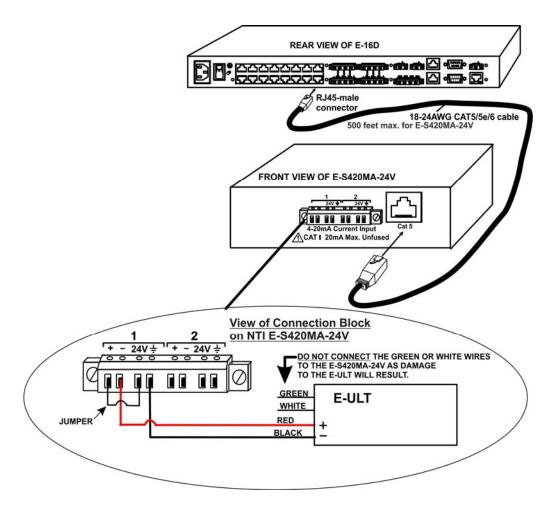
# Guide for Installation with an ENVIROMUX Server Environment Monitoring System



E-ULT is a general purpose non-contact ultrasonic level switch, controller and transmitter for small tanks (49.2" (1.25 m) or smaller) or feed applications integrating process or control automation of small tanks mounted on tools, skids or machines. The rugged PVDF enclosure is well suited for a wide range of corrosive, waste or slurry type media. The E-ULT can be used for atmospheric day tank, process vessel or dispenser, pump lift station and waste sump applications to name a few. Level indication can be monitored via connection to an NTI Server Environment Monitoring System.

The ENVIROMUX-ULT may be connected to the terminal block of an NTI E-S420MA-24V 4-20mA Sensor Converter. The E-S420MA-24V can then be connected to an RJ45 Sensor port on an E-2D, E-5D, or E-16D Server Environment Monitoring System (SYSTEM). Using a SYSTEM, the E-ULT can be monitored automatically and the SYSTEM can be configured to alert users of variations in levels sensed by the E-ULT.

Follow the wiring diagram below to connect the E-ULT to a 4-20MA Sensor Converter and then configure the SYSTEM to provide users with alert messages as defined in the sensor configuration within the SYSTEM. An example of that configuration can be found on page 2.



#### Sensor 10 Configuration Sensor Settings Description Descriptive name for the sensor Group Select which group the sensor belongs to Min. Level Min. supported value for the senso Max. Level 20.0 Max. supported value for the senso Associate sensor to a customized sensor type Associate Sensor Associated Sensor Type Fluid Level iated ser Associated Sensor Unit ent unit for the associated sensor SNMP Associated Type ID 32767 ID value for SNMP type of associated sensor Min. Associated Level 0.000000 Sensor expected value corresponding to 4mA Max. Associated Level Sensor expected value corresponding to 20mA Min. Non-Critical Threshold Min. threshold below which indicates an non-critical alert condition Max. Non-Critical Threshold Max. threshold above which indicates an non-critical alert condition Min. Critical Threshold Min. threshold below which indicates an alert condition Max. Critical Threshold Max. threshold above which indicates an alert condition Refresh Rate Sec ▼ The refresh rate at which the sensor view is updated **⊞ Non-Critical Alert Settings ⊞ Critical Alert Settings ⊞** Data Logging

#### **Specifications** Range: 49.2" (1.25 m) Accuracy: 0.125" (3 mm) Resolution: 0.019" (0.5 mm) Beam width: 2" (5 cm) Dead band: 2" (5 cm) Supply voltage: 24 VDC (loop) Loop resistance: 400Ω max @ 24 VDC Consumption: 0.5W Signal output: 4-20 mA, two-wire reversible mA Loop fail-safety: 4 mA, 20 mA, 21 mA, 22 mA, hold last Configuration: WebCal® USB 2.0 Temp. comp.: Automatic over range F: -20° to 140° Process temp.: C: -7° to 60° Ambient temp.: F: -31° to 140° C: -35° to 60° MWP = 30 PSIPressure: Enclosure: Type 6P encapsulated, corrosion resistant & submersible Encl. material: Polycarbonate Strain relief mat.: Santoprene Trans. material: **PVDF** Cable length: 48" (1.2 m) Cable jacket mat.: Polyurethane Process mount: 1" NPT (1" G) Mount. gasket: Viton® Classification: General purpose CE, cFMus Approvals:

### (Example of possible E-ULT sensor configuration in the E-16D)

In the above example, we assume the tank used has the sensor mounted 49.2" from the bottom of the tank. With a 2" dead band, the maximum fluid level ("maximum associated level") would be 47.2". Therefore a 20mA output from the sensor would be equal to a full tank. An empty tank ("minimum associated level") would be equal to a 4mA output.

For instruction on mounting and configuring the E-ULT, refer to the manual packaged with the unit.

# WARRANTY INFORMATION

The warranty period on this product (parts and labor) is two (2) years from the date of purchase. Please contact Network Technologies Inc at **(800) 742-8324** (800-RGB-TECH) or **(330) 562-7070** or visit our website at <a href="http://www.networktechinc.com">http://www.networktechinc.com</a> for information regarding repairs and/or returns. A return authorization number is required for all repairs/returns.

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