VTU SERIES

High Voltage DC/AC Voltage Transducer

The VTU series of voltage transducers provide very high accuracy and safety in a panel or DIN rail mounted housing. The one sensor design can measure DC or AC circuit voltages to 1200 volts, and produce an analog signal directly proportional to the voltage connected. A very valuable tool to spot issues with power generation (conventional and alternative sources) like brown outs and phase loss. The voltage will be present on the line side of a disconnect even when the breaker or switch is open.



Photovoltaic Panels

 Connecting panel outputs in series increases the voltage sent from the panels to the load up to 1200 volts DC. The VTU is designed to measure this safely.

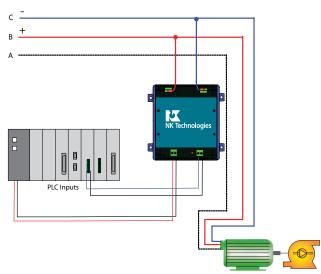
Water Delivery and Treatment

 Measure the AC voltage to pumps and aerators and shut them down if the supplied voltage falls to a dangerous level.

Cranes and Lifting Apparatus

 DC motors are used to lift, place and position heavy objects, as they have full torque capacity at zero speed. Use a voltage transducer to be sure that the field windings have voltage to keep the motor speed under control.

VTU Measures Both AC and DC Voltages





Voltage Transducer Features

Industry Standard Output Options

- 4-20 mA, 0-5 and 0-10 VDC.
- Compatible with most automation and control systems.
- Output proportional to RMS voltage.

Externally Powered

• 24 VAC or DC with low power consumption.

Simple Conductor Termination

- · Primary circuit uses self-tightening terminals.
- Power supply and output terminals are finger-safe.

Panel or DIN Rail Mounting Options

- If a DIN rail is not available, use the screw mounting option to attach to a back panel.
- Power supply is isolated from input and output.

UL/cUL Approved, CE Approval Pending

· Accepted worldwide.

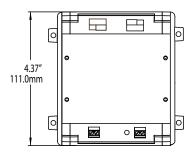


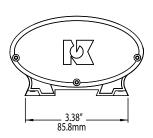


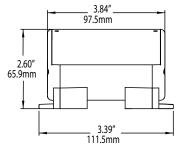


Voltage Transducer Dimensions

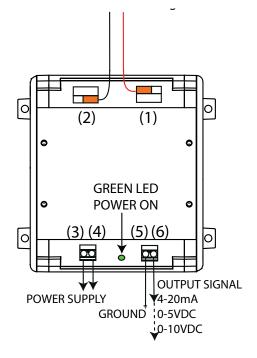
OS Case







Voltage Transducer Connections



Voltage Transducer Specifications



24 VAC/DC (22–26 VAC or DC)
0-800, 1000 or 1200 VAC or DC
<2VA
• 4–20 mA • 0–5 VDC • 0–10 VDC
• 4–20 mA: <400 Ω • 0–5/10 VDC: >100 KΩ
100 ms
<1% FS
UL listed to 1270 VAC, tested to 5 KV
0-400 Hz
UL94 V-0 Flammability Rated
DIN rail or panel mounting
UL/cUL, CE pending

Voltage Transducer Ordering Information

Sample Model Number: VTU10-420-24U-OS AC or DC voltage transducer, 0-1000 V primary, 4-20 mA secondary, 24 VAC/DC power, DIN or panel mounting enclosure.



(1) Range

8	0-800 V
10	0–1000 V
12	0-1200 V

(2) Output Type

005	0–5 VDC
010	0-10 VDC
420	4–20 mA

(3) Supply Voltage

24U 24 VAC/DC external power supply	
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(4) Case Style

OS	DIN rail or panel mounting case
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