



# TRANSDUCERS

## KELE UNIVERSAL ELECTRONIC / PNEUMATIC TRANSDUCERS UCP-822A SERIES

### DESCRIPTION

The **Kele UCP-822A microcontroller based electronic/ pneumatic transducer** incorporates high performance poppet valve technology and low-power coils with digital control to provide unmatched accuracy and proven reliability. In addition to providing reliable, stable operation, the poppet valves used in the **UCP-822A** consume no air. The **UCP-822A** features programmable pressure ranges and an LCD display. This universal transducer has field selectable analog inputs for 4-20mA, voltage, tri-state, or PWM.

### OPERATION

The **UCP-822A-PL** converts a selectable analog, tri-state or PWM input to a programmable psig output (0-25 psig range). The transducer is powered with 22-30 VDC or 20-30 VAC. Upon a loss in power, the **UCP-822A-PL** air valves remain closed, so branch pressure will remain at the last value. The pressure loss alarm provides a contact closure if the **UCP-822A-PL** is unable to achieve the desired output within a fixed length of time. This alarm may be changed to alarm if the transducer is set for manual operation. The **UCP-822A-AO-PL** adds an analog output for feedback of the branch pressure.

### FEATURES

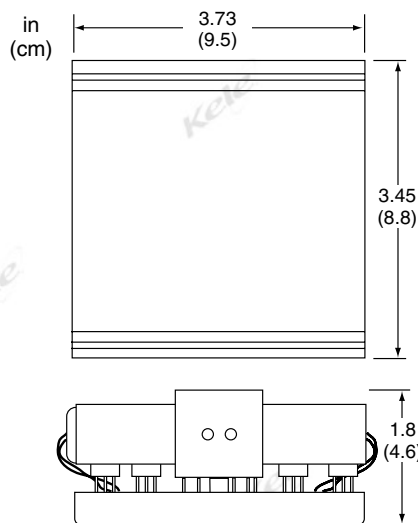
- **Extended PWM and Tristate settings**
- **Programmable pressure output up to 25 psig**
- **Field-selectable signal inputs (4-20mA, voltage, tri-state, PWM)**
- **LCD display for local indication of readings**
- **No air consumption and quiet operation**
- **Easy mounting with snap track housing**
- **Pressure loss or manual mode alarm**
- **Optional analog output 4-20mA or 0-10 VDC selectable**



UCP-822-PL



### DIMENSIONS

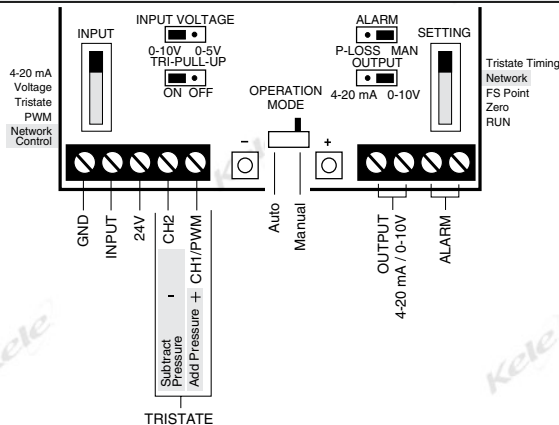


### SPECIFICATIONS

<b>Supply Voltage</b>	22-30 VDC, or 20-30 VAC	<b>Maximum Pressure</b>	45 psig (310 kPa)
<b>Supply VA</b>	350 mA maximum (half-wave)	<b>Media Compatibility</b>	Clean, dry air or inert gas
<b>Input</b>	0-5 VDC, 0-10 VDC, 4-20 mA, tri-state, PWM	<b>Minimum Tubing Length</b>	15 ft. (4.6 m)
<b>Input Impedance</b>	10 kΩ, VDC input; 250Ω, 4-20 mA input	<b>Repeatability</b>	<1% full scale
<b>Output</b>	0-25 psig (0-175 kPa) configurable	<b>Linearity</b>	<1% full scale
<b>Wiring Terminations</b>	Screw terminals	<b>Hysteresis</b>	<1% full scale
<b>Air Capacity</b>	333 scim (5456 cm <sup>3</sup> /min) @ 20 psig (138 kPa) supply; 523 scim (8570 cm <sup>3</sup> /min) @ 45 psig (310 kPa) supply	<b>Operating Temperature</b>	41° to 140°F (5° to 60°C)
<b>Air Connections</b>	1/4" OD tubing	<b>Operating Humidity</b>	10 to 90% RH (non-condensing)
<b>Air Consumption</b>	None in steady state	<b>Dimensions</b>	3.5"H x 3.3"W x 1.9"D (8.5 x 8.3 x 4.6 cm)
		<b>Weight</b>	0.8 lb (0.36 kg)
		<b>Approvals</b>	CE
		<b>Warranty</b>	5 years

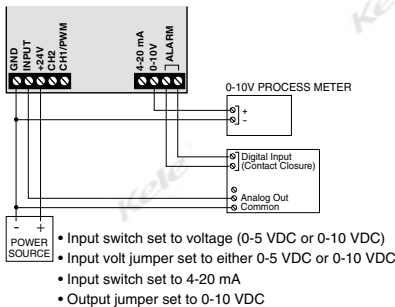


### CONFIGURATION

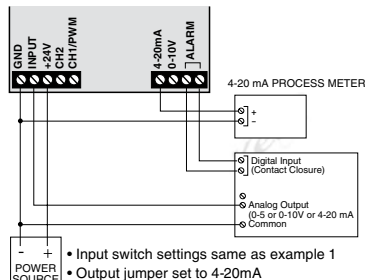


### WIRING

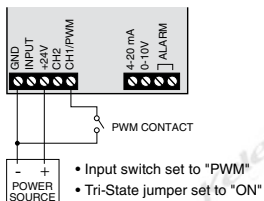
#### Current/Voltage Control, Voltage Output Example



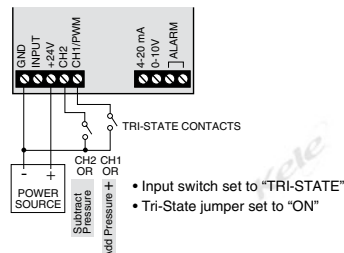
#### Current/Voltage Control, Current Output Example



#### Pwm Control Example



#### Tri-state Control Example



### ORDERING INFORMATION

#### MODEL

**UCP-822A-AO-PL**  
**UCP-822A-AO-PL-R**

#### DESCRIPTION

Universal electronic/pneumatic transducer, VDC, mA, tri-state, or PWM input, 0-25 psig output, analog output, w/restrictor

**UCP-822A-PL**  
**UCP-822A-PL-R**

Universal electronic/pneumatic transducer, VDC, mA, tri-state, or PWM input, 0-25 psig output, w/ restrictor

#### DIN-L1

#### RELATED PRODUCTS

DIN rail adapter bracket for snap-track mounted devices