

DESCRIPTION

The **Kele UCP-722 Series** microcontroller based electro-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-722** consume no air. The **UCP-722** features jumper-selectable pressure ranges and an LCD display. Field selectable analog inputs for 0-5V, 0-10V, or 4-20mA signals are standard.



UCP-722-PL



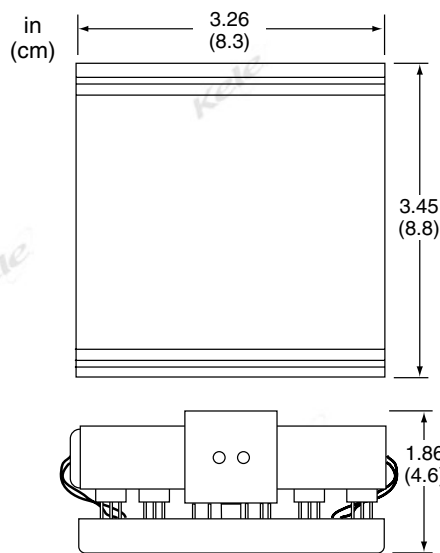
OPERATION

The **UCP-722** converts a jumper-selectable analog input to a 0-20 or 3-15 psig output. The transducer is powered with 24 VAC/VDC. Upon a loss in power, the **UCP-722** air valves remain closed, so branch pressure will remain at the last value. The optional pressure loss alarm provides a contact closure if the **UCP-722-PL** is unable to achieve the desired output within a fixed length of time.

FEATURES

- **Jumper-selectable control range (0-20 psig or 3-15 psig)**
- **Field-selectable inputs (0-5 VDC, 0-10 VDC, 4-20 mA)**
- **LCD display for local indication of readings**
- **No air consumption and quiet operation**
- **Easy mounting with snap track housing**
- **Optional pressure loss alarm**

DIMENSIONS

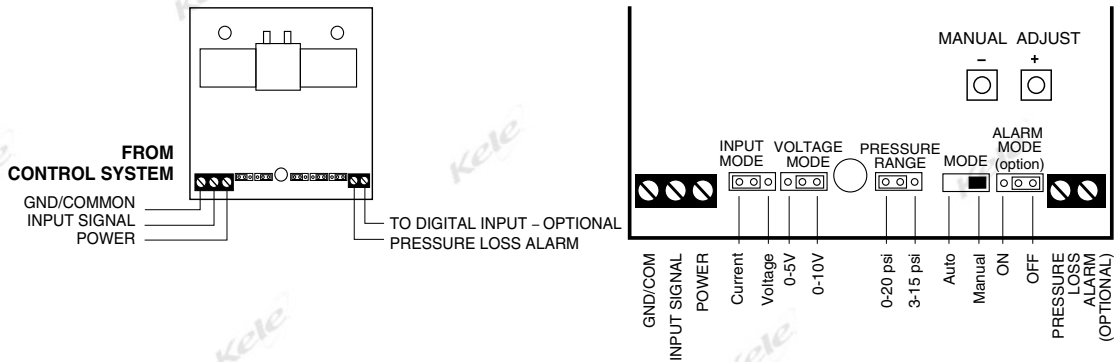


SPECIFICATIONS

Supply Voltage	24 VAC/VDC	Maximum Pressure	45 psig (310 kPa)
Supply VA	150 mA maximum (half-wave)	Media Compatibility	Clean dry air
Input	0-5 VDC, 0-10 VDC, or 4-20 mA	Minimum Tubing Length	15 ft. (4.6 m)
Input Impedance	10 kΩ, VDC input; 250Ω, 4-20 mA input	Repeatability	<1% full scale
Output	0-20 psig (0-140 kPa) or 3-15 psig (21-103 kPa)	Linearity	<1% full scale
Wiring Terminations	Screw terminals	Hysteresis	<1% full scale
Air Capacity	333 scim (5456 cm ³ /min) @ 20 psig (138 kPa) supply; 523 scim (8570 cm ³ /min) @ 45 psig (310 kPa) supply	Operating Temperature	25° to 140°F (-4° to 60°C)
Air Connections	1/4" OD tubing	Operating Humidity	10 to 90% RH (non-condensing)
Air Consumption	None in steady state	Dimensions	3.5"H x 3.3"W x 1.9"D (8.5 x 8.3 x 4.6 cm)
		Weight	0.8 lb (0.36 kg)
		Approvals	CE
		Warranty	5 years



WIRING



INSTALLATION

JUMPER CONFIGURATION

INPUT	Select CURRENT (4-20 mA) or VOLTAGE (0-5V or 0-10V)
VOLTAGE	For voltage mode of operation, select 0-5V or 0-10V
SCALING MODE	Select 0-20 psi or 3-15 psi scaling
MODE	Select AUTO for normal operation, or MANUAL to adjust pressure using pushbuttons
POWER/SIGNAL OPTIONS	
ALARM MODE RELAY	The alarm contacts will open if the unit cannot obtain 80% of commanded pressure within two (2) minutes
GND/Common	Power supply ground and signal common
INPUT SIGNAL	4-20 mA, 0-10 VDC, or 0-5 VDC input from control system
POWER	22-30 VDC, 20-30 VAC. From control system or external power supply or transformer

NOTE: In 24 VAC transformer applications, one side of transformer secondary is connected to signal.

QUICK INSTALL

CAUTION: Use electrostatic discharge precautions (e.g., use of wrist strips) during installation and wiring to prevent equipment damage.

1. Mount transducer using screws provided. Take care to avoid damaging electronic components.
2. Wire transducer as shown in wiring diagram.
3. Configure jumpers for desired operation as shown.
4. Attach pressure tubing to hose barbs. Observe MAIN and BRANCH port labels. Use flexible 1/4" O.D. poly tubing for main and branch pneumatic connections.

CAUTION: Main supply pressure must not exceed 45 psig.

PL OPTION

PRESSURE LOSS ALARM OPTION

Normally closed, solid-state contacts open if main supply pressure fails, or transducer is otherwise unable to produce correct branch pressure. Connect to digital input of control system for alarm status indication. If commanded pressure is not within 80% inside a two (2) minute window, alarm contacts will open.

- 0-20 psi alarm contact will not change state when commanded pressure is four (4) psi or less
- 3-15 psi alarm contact will not change state when commanded pressure is 5.4 psi or less

ORDERING INFORMATION

MODEL	DESCRIPTION
UCP-722	Universal electronic/pneumatic transducer, 0-5 VDC, 0-10 VDC, or 4-20 mA input, 3-15 psig or 0-20 psig output
UCP-722-PL	Universal electronic/pneumatic transducer, 0-5 VDC, 0-10 VDC, or 4-20 mA input, 3-15 psig or 0-20 psig output, with pressure loss alarm

DIN-L1	RELATED PRODUCTS
	DIN rail adapter bracket for snap-track mounted devices