TRANSDUCERS

OPTIONS FOR MODEL UCP-422 UCO-44, UCO-44T OPTIONS

DESCRIPTION

The UCO-44 and UCO-44T Options are designed to be used with the Kele Model UCP-422 electronic/pneumatic transducer. The UCO-44 Option allows the Model UCP-422 to be controlled by a pulse-width modulated (PWM) signal. The UCO-44T Option allows the Model UCP-422 to be controlled by a tri-state input signal. These options are mounted in an expander ring attached to the Model UCP-422.

FEATURES

- Selectable PWM time base 0.1-2.65, 5.2, 12.85, 25.6, or 0.59-2.93 sec
- Selectable tri-state time base 2.55, 5.1, 12.75, 25.5, 59.9, 90.5. or 119.9 sec
- 255-step resolution
- Positive or negative input reference
- AC/DC voltage
- LED indication

OPERATION

UCO-44 Option

The UCO-44 Option accepts a pulse-width modulated input and produces an internal 4-20 mA current signal that controls the Model UCP-422. The standard time base is 25.6 seconds but is switch-selectable for any of the other four ranges. The UCO-44 Option responds to the elapsed time when the controlling computer closes the contacts wired in series with the signal SIG IN + or SIG IN - terminals. Each pulse received will produce a corresponding pressure output. The transducer will hold this signal until given a pulse with a different value.

UCO-44T Option

The UCO-44T Option is controlled from two discrete contact closures or one tri-state output from a controlling computer. Each signal given the transducer will ramp an internal 4-20 mA signal up or down to control the Model UCP-422. A contact closure wired in series with the SIG IN + terminal will increase the output in proportion to the length of the signal given. A contact closure wired in series with the SIG IN - terminal will decrease the output in proportion to the length of the signal given.

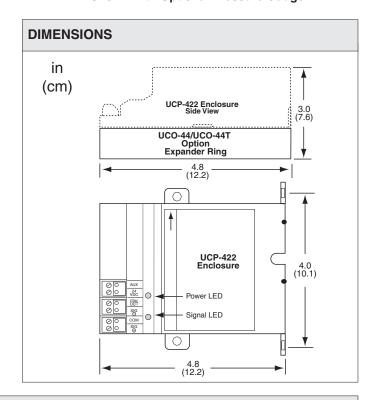
LED INDICATION

PWR LED - On when 24V is present

SIG LED - On only when an input signal is present



Shown with Optional Pressure Gauge



SPECIFICATIONS

24 VAC ±10% @ 100 mA (half-wave) Supply voltage

24 VDC ±10% @ 50 mA

PWM time base 0.1-2.65, 5.2, 12.85, factory-set 25.6,

or 0.59-2.93 sec (internally DIP switch

selectable)

Output resolution 255 steps Tri-state time base 2.55, 5.1, 12.75, 59.9, 90.5, 119.9,

or factory-set 25.5 sec (internally DIP

switch selectable)

Accuracy ±0.5% of span

Operating temp 32° to 122°F (0° to 50°C) **Humidity limit** 5% to 95% RH non-condensing

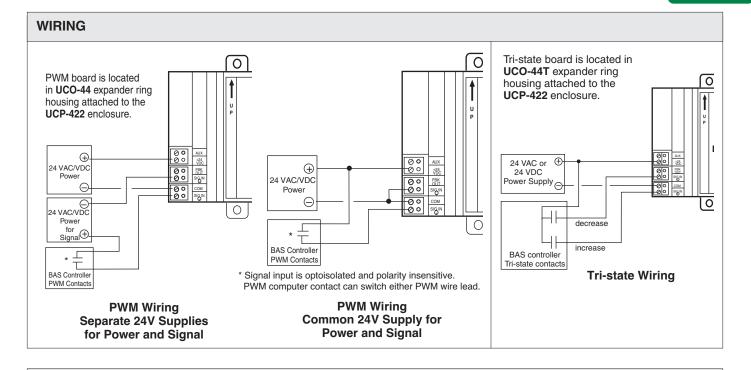
Warranty 18 months

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CALIBRATION

Important! To change the time base, the transducer must be disassembled. A time base other than the factory setting may be specified at the time of order entry.

Time Base Selection

- 1. Remove two screws from the bottom plate of the enclosure.
- Carefully remove the PWM/Tri-state board and locate time base select switches.
- 3. Set switches 3, 4, and 5 to desired time base as shown in table. Switches 1, 2, 6, 7, and 8 are not used and should be in the off position.

TABLE 1. TIME BASE SELECTION				
PWM TIME	TRI-STATE	SWITCH		
BASE (sec)	TIME BASE (sec)	3	4	5
0.1-2.65	2.55	Off	Off	Off
0.1-5.2	5.1	Off	Off	On
0.1-12.85	12.75	Off	On	Off
0.1-25.6	25.5	Off	On	On
(factory setting)	(factory setting)			
0.59-2.93	59.9	On	Off	Off
	90.5	On	Off	On
	119.9	On	On	Off

- 4. Carefully reassemble the transducer, ensuring that socket and pins are properly aligned.
- 5. No other adjustment or calibration is required.

ORDERING INFORMATION

MODEL DESCRIPTION

UCP-422-44 Electronic / pneumatic transducer PWM option (factory installed)
UCP-422-44T Electronic / pneumatic transducer tri-state option (factory installed)