



DESCRIPTION

F Option

The **Feedback Loop Control F Option** outputs a current sourcing 4-20 mA signal representative of the branch output pressure. The standard range is 4-20 mA to 3-15 psig (20.7-103.4 kPa). **F Option** also allows for custom ranging the output (i.e., 4-20 mA to 8-13 psig). Any range from 3-15 psig (with a minimum 5 psig span) can be field-calibrated. This option requires 24 VAC/DC power.

V Option

The **Voltage Input V Option** allows the **UCP-422** to be controlled by any voltage signal with a 5:1 ratio span. For example, the voltage signal span could be 1-5V, 2-10V, or 3-15V. This option requires 24 VAC/VDC power.

RECALIBRATION

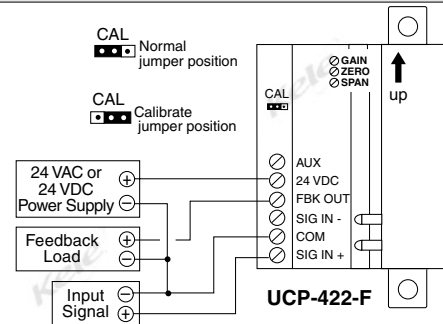
F Option

1. Make all connections according to the wiring diagram, or as shown on the job diagrams, in compliance with national and local codes. Make all connections with power removed. Failure to do so could result in circuit board damage.
2. Connect the highest quality gauge available to the branch line of the transducer.
3. Move the jumper to the CAL position (see Wiring).
4. Vary the input signal to the transducer until the gauge indicates the minimum branch pressure desired to output. If the transducer is equipped with the manual output adjust option, set the minimum branch pressure by putting the manual output adjust jumper in the ENABLE position and turning the manual pot.
5. Adjust ZERO pot for 4 mA output from the transducer feedback terminals.
6. Repeat step 4 to set the maximum branch pressure. If maximum pressure cannot be reached, adjust GAIN pot.
7. Adjust the SPAN pot for 20 mA output from the transducer feedback terminals.
8. Since SPAN and ZERO pots are interactive, repeat steps 4, 5, 6, and 7 until results are accurate.
9. Move CAL jumper back to the normal position and move the manual output adjust jumper back to the disable position.
10. Input the maximum input signal and adjust the GAIN pot until the desired maximum pressure is indicated on the gauge.

V Option

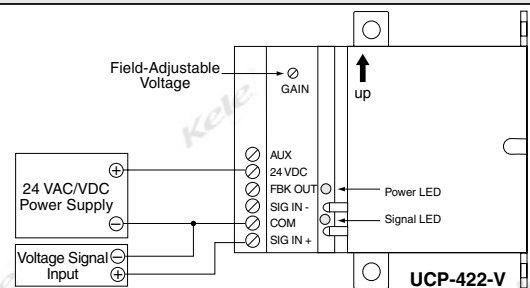
1. Make all connections according to the wiring diagram, or as shown on the job diagram, in compliance with national and local codes. Make all connections with power removed. Failure to do so could result in circuit board damage.
2. Connect the highest quality gauge available to the branch line of the transducer.
3. Apply the new input voltage desired for maximum pressure (limited to a range of 5-15 VDC).
4. Adjust the GAIN pot until the pressure gauge shows a slight change in pressure.
5. Now, adjust the GAIN pot until maximum pressure shows on the gauge.
6. The transducer is now recalibrated to the new voltage input span (max to min 5:1 ratio).

UCP-422-F WIRING



Power Requirements: 24 VAC @ 180 mA
24 VDC @ 90 mA
Feedback Output: 4-20 mA, 800Ω max

UCP-422-V WIRING



Power Requirements
Voltage Option Only: 24 VAC @ 75 mA
24 VDC @ 35 mA
Voltage and Feedback Options:
24 VAC @ 180 mA
24 VDC @ 90 mA
Voltage Signal Input
Impedance: 160 kΩ

ORDERING INFORMATION

MODEL	DESCRIPTION
UCP-422	Electronic/Pneumatic transducer
OPTIONS	
F	Feedback loop control (4-20 mA/3-15 psig standard)*
V#	Voltage input V1: 1-5V, V2: 2-10V, V3: 3-15V

UCP-422 - []

* Special ranges must be specified at time of order entry. Important! Options cannot be field-installed.