



# 120 Series

**UE** UNITED ELECTRIC CONTROLS

Explosion-Proof

Types J120, H121, H122 (Pressure Switch)

Types J120K, H121K, H122K (Differential Pressure Switch)

## Installation and Operation Instructions

Please read all instructional literature carefully and thoroughly before starting.

Refer to the final page for the Warranty.

### GENERAL

**⚠ MISUSE OF THIS PRODUCT MAY CAUSE EXPLOSION AND PERSONAL INJURY. THESE INSTRUCTIONS MUST BE THOROUGHLY READ AND UNDERSTOOD BEFORE DEVICE IS INSTALLED.**

**ℹ BEFORE INSTALLING, CHECK THE SENSOR MODEL SELECTED FOR COMPATIBILITY BETWEEN THE PROCESS MEDIA AND THE SENSOR AND WETTED PARTS.**

<b>Cert number</b>	<b>E40857</b>
<b>Applicable Area</b>	North America
<b>Markings</b>	Class I, Groups B, C and D; Class II, Groups E, F and G; Class III
<b>Applicable Standards</b>	UL 1203; CAN/CSA C22.2 No. 25 CAN/CSA C22.2 No. 30

<b>Cert number</b>	<b>DEMKO 09 ATEX 0815573X</b>
<b>Applicable Area</b>	Europe (EU)
<b>Markings</b>	II 2 G Ex db IIC T6 Gb; II 2 D Ex tb IIIC T85°C Db IP66
<b>Applicable Standards</b>	EN IEC 60079-0; EN 60079-1; EN 60079-31

<b>Cert number</b>	<b>IECEx UL 03.0001X</b>
<b>Applicable Area</b>	International
<b>Markings</b>	Ex db IIC T6 Gb Ex tb IIIC T85°C Db IP66 -40°C to +75°C
<b>Applicable Standards</b>	IEC 60079-0; IEC 60079-1; IEC 60079-31

<b>Cert number</b>	<b>DEMKO 11 ATEX 1105261X</b>
<b>Applicable Area</b>	Europe (EU)
<b>Markings</b>	II 1 G Ex ia IIC T6 Ga
<b>Applicable Standards</b>	EN IEC 60079-0; EN 60079-11

<b>Cert number</b>	<b>IECEx UL 14.0075X</b>
<b>Applicable Area</b>	International
<b>Markings</b>	Ex ia IIC T6 Ga -50°C ≤ Tamb ≤ +60°C
<b>Applicable Standards</b>	IEC 60079-0; IEC 60079-11

**⚠ 120 SERIES FOR USE IN CLASS I, DIV. 1, GROUPS B, C & D; CLASS II, DIV. 1, GROUPS E, F & G; CLASS III HAZARDOUS LOCATIONS. ENCLOSURE TYPE 4X, IP66. AMBIENT TEMPERATURE RANGE -50°C (-58°F) TO 71°C (160°F).**

**⚠ ATEX AND IEC SPECIFIC CONDITIONS OF USE: DIMENSIONS OF THE FLAMEPROOF JOINTS ARE OTHER THAN THE RELEVANT MINIMUM OR MAXIMUM SPECIFIED IN TABLES 1 AND 2 OF EN 60079-1/IEC 60079-1. PRESSURE OPERATED SWITCHES ARE TO BE MARKED WITH AN "X" AND THE DIMENSIONS OF THE FLAMEPROOF JOINTS ARE AS FOLLOWS:**

#### 120's

- **Activation Plunger to adjustment screw hole gap joints:** 1.140 in/28.96 mm min length by 0.0039 in/0.099 mm max annular gap.
- **Plunger Guide to enclosure through threaded joints:** minimum 8 ½ fully engaged threads.
- **Cover to enclosure through threaded joints:** minimum 7 ½ fully engaged threads.

#### 121's and 122's

- **Activation Plunger to enclosure through hole gap joints:** 1.000 in/25.40 mm min length by 0.0030 in/0.076 mm max annular gap.
- **Adjustment shaft to shaft through hole gap joints:** 1.050 in/26.67 mm min. length by 0.0035 in/0.089 mm max. annular gap.
- **Cover to enclosure through threaded joints:** minimum 7 ½ fully engaged threads.

**⚠ ATEX AND IEC SPECIFIC CONDITION OF USE: THE DEVICE MUST BE CLEANED WITH A DAMP CLOTH TO AVOID STATIC DISCHARGE.**

**⚠ ATEX AND IEC SPECIFIC CONDITION OF USE: ENCLOSURE CONTAINS ALUMINUM. CARE MUST BE TAKEN TO AVOID IGNITION HAZARD DUE TO IMPACT OR FRICTION.**

**⚠ THIS PRODUCT DOES NOT HAVE ANY FIELD REPLACEABLE PARTS. ANY SUBSTITUTION OF COMPONENTS SHALL INVALIDATE AGENCY CERTIFICATION(S), AND IMPAIR SUITABILITY FOR CLASS I, DIV. 1 LOCATION.**

**⚠ TO PREVENT IGNITION OF HAZARDOUS ATMOSPHERES, DISCONNECT SUPPLY CIRCUITS BEFORE OPENING. KEEP COVER TIGHT WHILE CIRCUITS ARE ENERGIZED.**

**ℹ DEVICE MUST NOT BE ALTERED OR MODIFIED AFTER SHIPMENT. CONSULT UE IF MODIFICATION IS NECESSARY.**



**PROOF PRESSURE \* LIMITS LISTED ON NAMEPLATE MUST NEVER BE EXCEEDED, EVEN BY SURGES IN THE SYSTEM. OCCASIONAL OPERATION OF UNIT UP TO PROOF PRESSURE IS ACCEPTABLE, E.G. START-UP AND TESTING. EXCESSIVE CYCLING AT MAXIMUM PRESSURE LIMIT COULD REDUCE SENSOR LIFE. CONTINUOUS OPERATION SHOULD NOT EXCEED THE DESIGNATED OVER RANGE \*\* OR MAXIMUM WORKING PRESSURE \*\*\* RANGE.**

\* Proof Pressure - the maximum pressure to which a pressure sensor may be occasionally subjected, which causes no permanent damage (e.g., start-up, testing). The unit may require re-gapping (consult UE).

\*\* Over Range Pressure - the maximum pressure to which a pressure sensor may be continuously subjected without causing damage and maintaining set point repeatability.

\*\*\* Working Pressure Range - the pressure range in which two opposing sensors can be safely operated and still maintain set point provided the difference in pressure between the low and high sides does not exceed the designated adjustable range.

The 120 Series pressure and differential pressure switches are actuated when a bellows, diaphragm or piston sensor responds to a pressure change. This response at a pre-determined set point(s) actuates a SPDT, DPDT or dual SPDT snap-acting microswitch(es), which convert the pressure signal into an electrical signal. Control set point(s) may be varied by turning the internal adjustment hex (J120 & J120K models) or the external knob and pointer(s) (H121, H121K, H122, & H122K models) according to the procedures outlined. (See Part II - Adjustments). Please refer to product datasheet at [www.ueonline.com](http://www.ueonline.com) for product specifications. Date code format on nameplate is "YYWW" for year and week.

## Part I - Installation



- Screwdriver
- Adjustable Wrench to 1-1/2"

## Mounting



**INSTALL DEVICE WHERE SHOCK, VIBRATION AND TEMPERATURE FLUCTUATIONS ARE MINIMAL. DO NOT INSTALL DEVICE IN AMBIENT TEMPERATURES THAT EXCEED PUBLISHED LIMITS ON THE NAMEPLATE.**



**DEVICE IS PROVIDED WITH ONE OR TWO 3/4" NPT ELECTRICAL CONDUIT OPENINGS, EITHER OF WHICH OR BOTH CAN BE USED DURING INSTALLATION. A 3/4" EXPLOSION-PROOF PLUG IS PROVIDED FOR PROPERLY PLUGGING THE UNUSED CONDUIT OPENING. THE EXPLOSION-PROOF PLUG MUST BE PROPERLY INSTALLED AND IS CERTIFIED AS PART OF THE DEVICE AND CARRIES NO INDIVIDUAL MARKINGS.**



**THE CONNECTION OF THE DEVICE SHALL BE MADE BY CABLE ENTRIES OR A STOPPING BOX SUITABLE FOR THE CONDITIONS OF USE AND CORRECTLY INSTALLED AND CERTIFIED BY TYPE OF EXPLOSION PROTECTION - EXPLOSION-PROOF 'd'.**



**DEVICE CAN BE MOUNTED IN ANY ORIENTATION BUT VERTICAL MOUNTING IS RECOMMENDED TO PREVENT MOISTURE FROM ENTERING THE ENCLOSURE.**



**CONSIDER THE USE OF A PRESSURE SNUBBER IF SEVERE PRESSURE SURGES ARE EXPECTED.**



**FOR PRESSURE MODELS, MOUNT VIA PRESSURE CONNECTION. ALWAYS USE A WRENCH ON PRESSURE CONNECTION HEX. DO NOT TIGHTEN BY TURNING THE ENCLOSURE AS THIS WILL DAMAGE THE SENSOR AND WEAKEN WELDED JOINTS.**

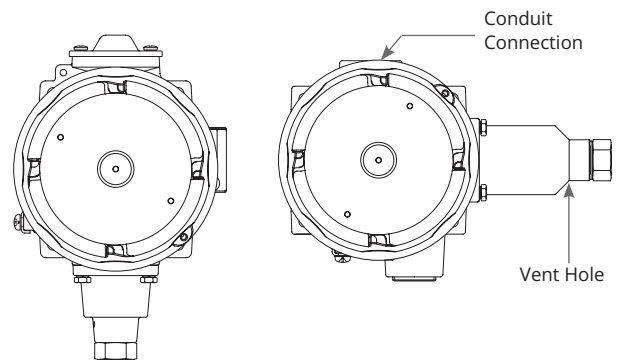


**FOR DIFFERENTIAL PRESSURE MODELS, MOUNT USING A WRENCH ON LOW AND HIGH SIDE PRESSURE CONNECTION HEX OR MOUNT AGAINST A RIGID SUPPORT THEN CONNECT LOW AND HIGH PRESSURE PORTS.**

Device may be surface mounted via the four 1/4" screw holes on the enclosure or mounting bracket. It can also be mounted directly to a rigid pipe using the pressure connection.

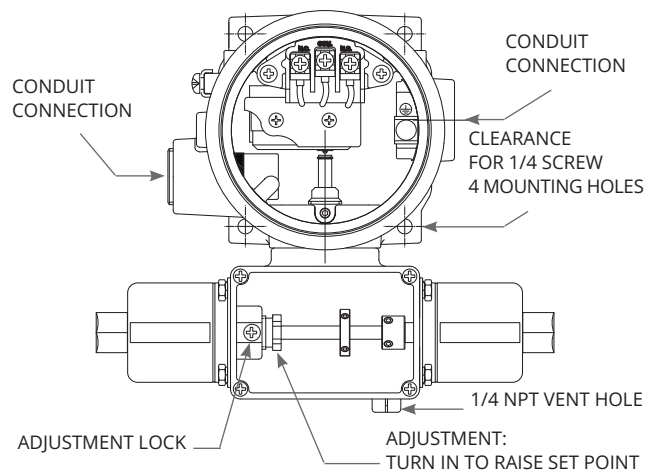
## Type J120 Models 520-525, 530-535 and J120K Models

It is recommended that types J120 and J120K models 520-525 and 530-535 be mounted vertically (pressure connection facing down, see figure 1A). If horizontal mounting is required, mount device so vent hole faces down (see Figure 1B). Set-point may shift and require set-point adjustment. Consult factory for additional information.



**Figure 1A:**  
H121, H121K, H122, H122K

**Figure 1B:**  
J120, J120K

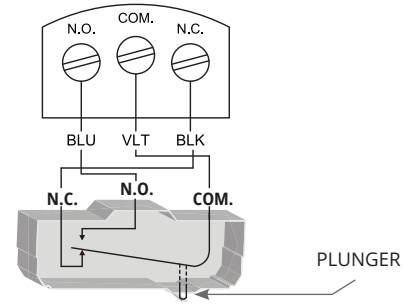


**Figure 2**  
Opposed Sensor Models

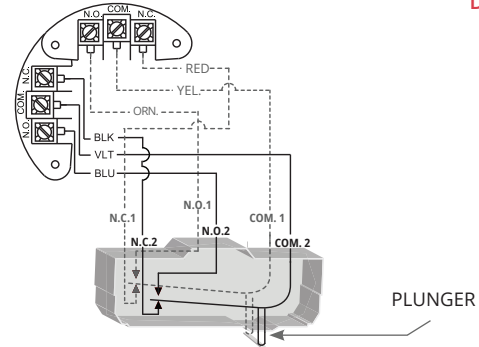
Differential Pressure Types J120K, H121K, H122K  
 Opposed Sensor Models 36-39, (S)147(B)-(S)157(B), 367

Opposed sensor differential pressure switches should be mounted with their pressure connection in the horizontal position (See Figure 2). This will properly orient the 1/4" NPT venting conduit at the bottom of the middle compartment (standardly supplied with plastic plug).

SPDT



DPDT



2SPDT

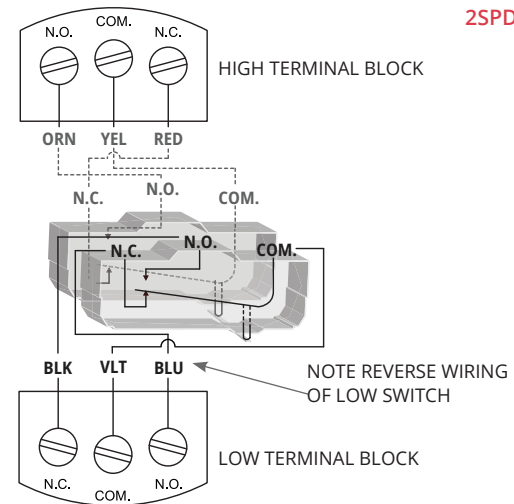


Figure 3

Wiring

**DISCONNECT ALL SUPPLY CIRCUITS BEFORE WIRING DEVICE. WIRE DEVICE IN ACCORDANCE WITH LOCAL AND NATIONAL ELECTRICAL CODES. MAXIMUM RECOMMENDED WIRE SIZE IS 14 AWG AND RECOMMENDED TIGHTENING TORQUE FOR FIELD WIRING TERMINALS IS 7 TO 17 IN-LBS. IT IS IMPERATIVE TO USE PROPERLY RATED EXPLOSION-PROOF SEALING FITTINGS FOR ELECTRICAL WIRE ENTRY.**

**USE 90 °C (194 °F) MIN. RATED COPPER CONDUCTOR ONLY. FOR AMBIENT TEMPERATURES BELOW -10 °C (14 °F), USE SUITABLE FIELD WIRING.**

**DO NOT EXCEED ELECTRICAL RATINGS LISTED ON NAMEPLATE. OVERLOAD ON A SWITCH CAN CAUSE FAILURE, EVEN ON THE FIRST CYCLE.**

**THE EXTERNAL GROUNDING TERMINAL IS NOT TO BE USED AS THE PRIMARY EQUIPMENT GROUNDING TERMINAL. THE INTERNAL GROUNDING TERMINAL SHALL BE USED AS THE PRIMARY EQUIPMENT GROUNDING MEANS AND THE EXTERNAL GROUNDING TERMINAL IS ONLY FOR A SUPPLEMENTAL (SECONDARY) GROUNDING CONNECTION WHERE LOCAL AUTHORITIES PERMIT OR REQUIRE SUCH A CONNECTION.**

**TO PREVENT IGNITION OF HAZARDOUS ATMOSPHERES, SEAL CONDUIT RUNS WITHIN 18" OF ENCLOSURE.**

**ENSURE ELECTRICAL CONDUIT ENTRIES ARE PROPERLY SEALED TO PREVENT MOISTURE ENTRY.**

**TO PREVENT SEIZURE OF ENCLOSURE COVER, DO NOT REMOVE LUBRICANT FROM THREADS. THREADS SHOULD ALSO BE FREE OF DIRT AND OTHER CONTAMINANTS.**

- 1 Remove cover and wire device (See Figure 3).
- 2 Wire directly to the terminal block. An internal grounding terminal is located near the right-hand conduit opening.
- 3 Replace cover and hand tighten to fully engage cover O-ring.

Part II - Adjustments

- Screwdriver
- 5/8" Open End Wrench
- 5/64" Allen Wrench

For set point adjustment, connect device to a calibrated pressure source.

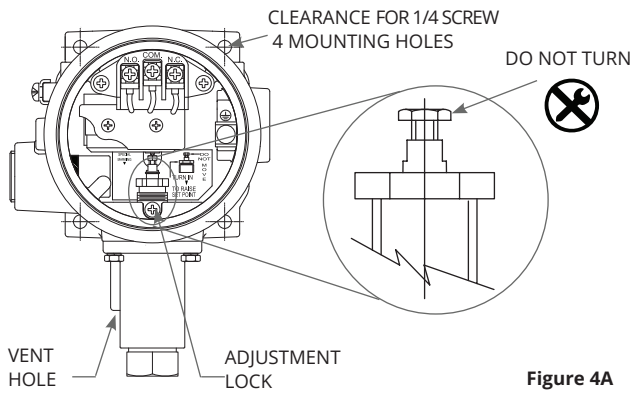
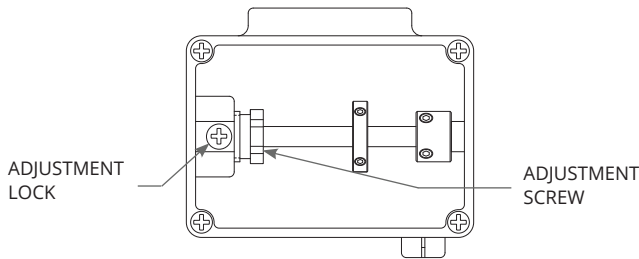


Figure 4A



J120K: Opposed Sensor, Models 36-39, 147-157, S147B, S157B, 367 Figure 4B

### Types J120 (All) and J120K Models 455-559 (See Figure 4A)

- 1 Remove cover.
- 2 Loosen phillips screw adjustment lock.
- 3 Adjust set point by turning 5/8" hex adjustment screw clockwise to increase setting, or counterclockwise to decrease setting.
- 4 Secure adjustment screw by tightening adjustment lock.

### Type J120K Models 36-39, 147-S157B, & 367 (See Figure 4B)

- 1 Remove front cover and gasket from sensor assembly located below enclosure by unscrewing 4 phillips screws.
- 2 Loosen phillips screw adjustment lock.
- 3 Adjust set point by turning 5/8" hex adjustment screw clockwise to increase setting or counterclockwise to decrease setting.
- 4 Secure adjustment screw by tightening adjustment lock.

### Types H121, H121K

Adjust set point by turning external knob and pointer to desired setting on scale.

### Types H122, H122K

Individual microswitches may be set together or separately by up to 100% of range. The front (Low) microswitch should never be set higher than the rear (High) microswitch. Turning external knobs will increase or decrease each switch setting independently.

### Device with options

#### Types with Adjustable Deadband Switch (Select Models & Option 1519)

Models 15622, 15834-15839, 15875 and types with option code 1519 incorporate a snap switch with integral adjustment wheel (see figure 5 and 6). Turning this wheel increases or decreases the pressure rise setting. The fall setting remains constant. To use the adjustable deadband switch:

- 1 Determine set point and deadband values. For example, a rising set point of 20 psi with a deadband value of 6 psi.
- 2 Set the falling set point at desired deadband value (determined by subtracting the deadband value from the desired set point) using the standard adjustment screw as outlined above. Using the example from step 1,  $20 - 6 = 14$ , so you would set the fall set point at 14 psi. This is your constant.
- 3 Set your deadband by turning the adjustment wheel clockwise to increase or counter clockwise to decrease the setting. Using the example from step 1, turn the wheel clockwise or counter clockwise until 20 psi is achieved. This is your set point.

Consult UE for additional information.

#### Option 1519 & Select Models

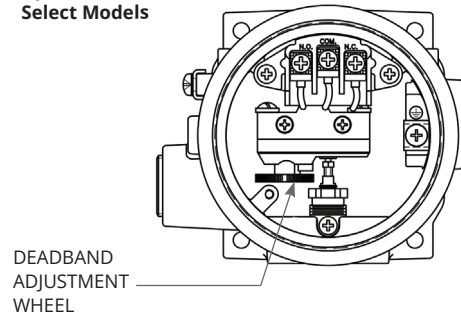


Figure 5

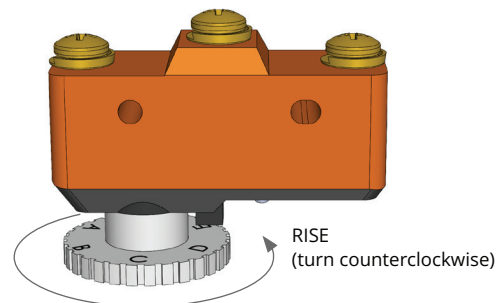


Figure 6

**NOTE:** Your adjustable deadband switch may be slightly different than shown but operation is the same.

## Option M210 Indicator for Differential Pressure Controls, Span Adjustment

To adjust indication for maximum accuracy at any desired set point, follow steps 1 thru 3 listed below (See Figure 7).

- 1 Remove front window and gasket (four screws) to gain access to span adjustment.
- 2 Connect device to calibrated gauge and set required differential pressure.
- 3 Using a screwdriver, slowly turn the span adjustment to obtain required indication. Remount the front gasket and window.

### Option M210

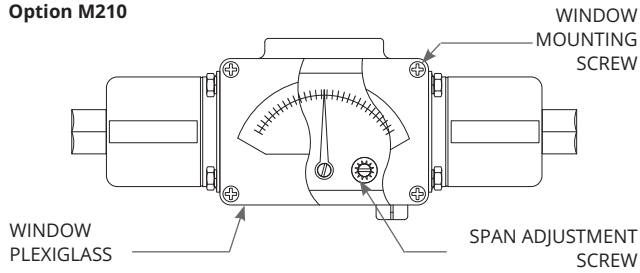


Figure 7

**NOTE:** Spanning adjustment will not affect the mid-range indication. The adjustment is factory calibrated and sealed to indicate tampering.



**AFTER COMPLETING SETTING ADJUSTMENT, BE SURE TO REINSTALL ENCLOSURE COVER.**

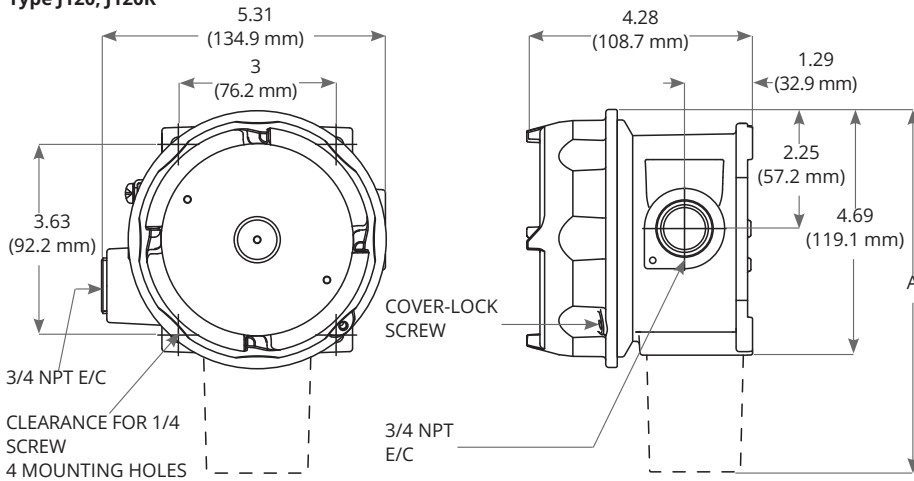
## Recommended Practices

- A redundant device is necessary for applications where damage to the primary device could endanger life, limb or property. A high or low limit switch is necessary for applications where a dangerous runaway condition could result.
- Monitor operation to observe warning signs of possible damage to device, such as drift in set point. Check device immediately.
- Preventative maintenance and periodic testing is necessary for critical applications where damage could endanger property or personnel.

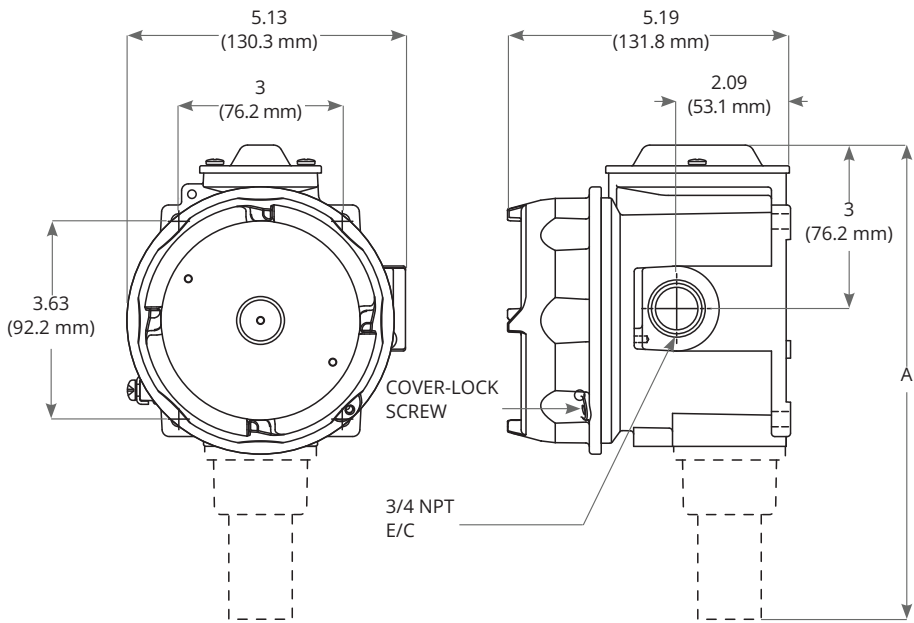
## Part III - Dimensions

(Dimensional drawings for all models may be found at [www.ueonline.com](http://www.ueonline.com))

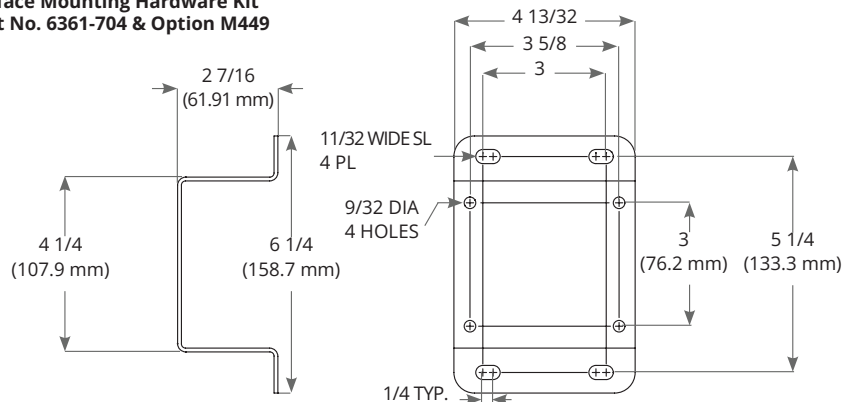
### Internal Set Point Adjustment Type J120, J120K



### External Set Point Adjustment Type H121, H122, H121K, H122K



### Surface Mounting Hardware Kit Part No. 6361-704 & Option M449



### Types J120, J120 K - Dimension A

Models	Inches	mm	NPT (Inches)
<b>Pressure</b>			
126-164	7.25	184.2	1/4
S126B-S164B	7.63	193.8	1/2
171-174	8.72	221.5	1/2
183-186, 483-486	8.41	213.6	1/2
188-189, 488-489	7.47	189.7	1/2
190-194, 490-494	7.44	189.0	1/2
270-274	8.13	206.5	1/4
358-376	8.09	205.5	1/4
450, 452	8.81	223.8	1/4
451, 453, 454	8.06	204.7	1/4
520-525	9.25	235.0	1/2
530-535	8.84	224.5	1/2
550, 552	8.81	223.8	1/4
551, 553-555	8.34	211.8	1/4
565-567	7.53	191.3	1-1/2" Sanitary
612, 616	7.88	200.2	1/4
680	8.13	206.5	1/4
701-705, 15622, 15834-15839	7.44	189.0	1/4

### Differential Pressure

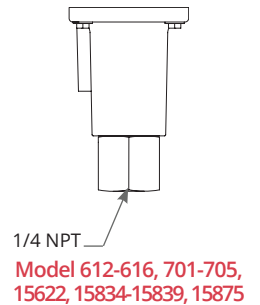
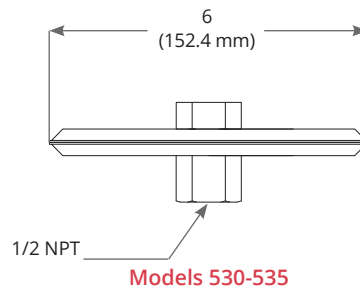
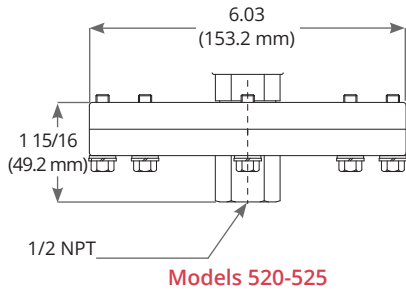
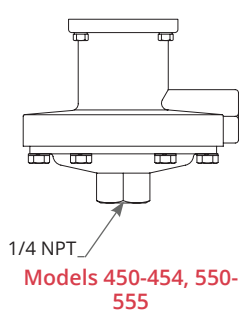
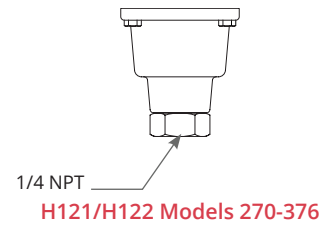
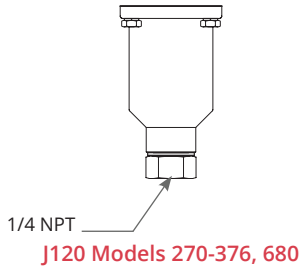
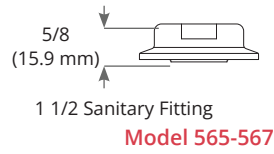
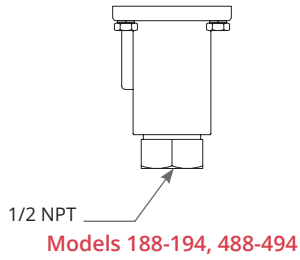
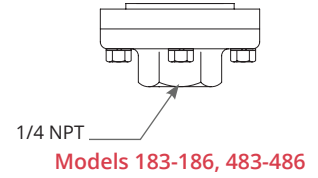
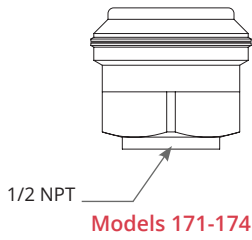
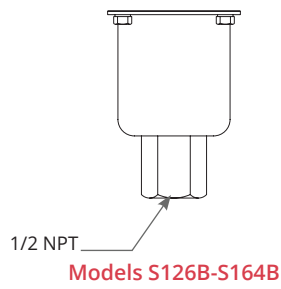
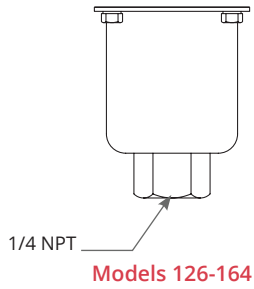
36-39, 147-157, 367	7.59	192.8	1/4
S147B-S157B	7.59	192.8	1/2
455-457, 559	8.44	214.4	1/4
540-543	9.34	237.2	1/8
544-548	9.41	239.0	1/8

### Types H121, H122, H121K, H122K

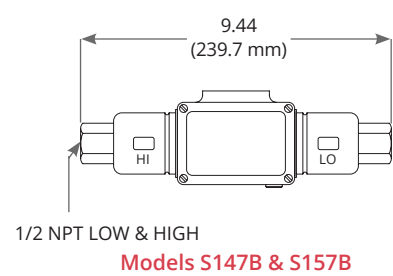
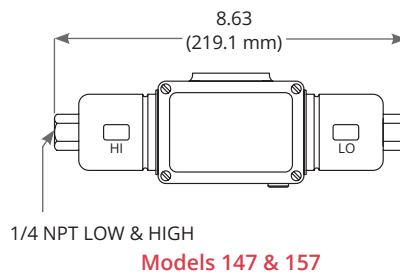
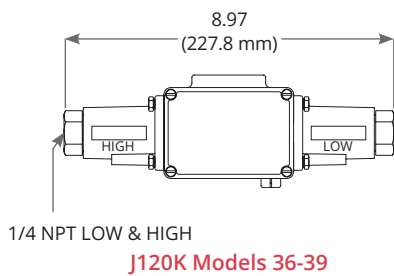
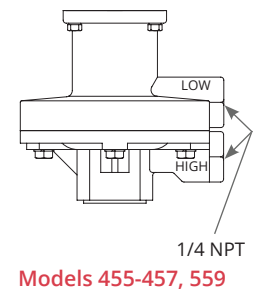
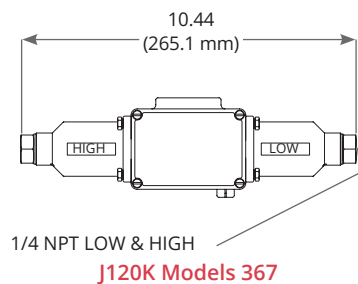
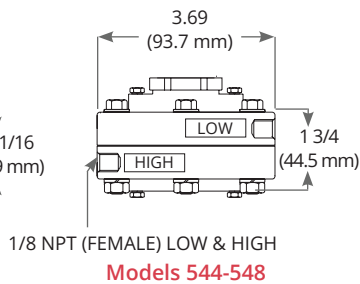
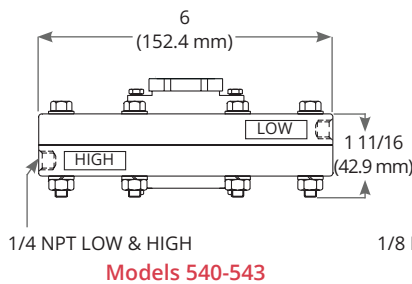
<b>Pressure</b>			
126-164	8.09	205.5	1/4
S126B-S164B	8.50	215.9	1/2
270-274	7.88	200.2	1/4
358-376	7.81	198.4	1/4
450, 452	9.69	246.1	1/4
453, 454	8.94	227.1	1/4
550, 552	9.75	247.7	1/4
553-555	9.31	236.5	1/4
612, 614, 15875	8.75	222.3	1/4
701-705	8.31	211.1	1/4

### Differential Pressure

147-157	8.44	214.4	1/4
S147B-S157B	8.44	214.4	1/2
456-457, 559	9.31	236.5	1/4



## DIFFERENTIAL PRESSURE



## French Warnings Translations

Pg	Warning Text	Texte d'Avertissement
1	MISUSE OF THIS PRODUCT MAY CAUSE EXPLOSION AND PERSONAL INJURY. THESE INSTRUCTIONS MUST BE THOROUGHLY READ AND UNDERSTOOD BEFORE UNIT IS INSTALLED.	Une mauvaise utilisation de cet appareil peut provoquer une explosion et/ou des blessures corporelles. Ces consignes doivent être lues attentivement et bien comprises avant l'installation de l'appareil.
1	120 SERIES FOR USE IN CLASS I, DIV. 1, GROUPS B, C & D; CLASS II, DIV. 1, GROUPS E, F & G; CLASS III HAZARDOUS LOCATIONS. ENCLOSURE TYPE 4X, IP66. AMBIENT TEMPERATURE RANGE -50°C (-58°F) TO 71°C (160°F).	Le 120 Series est adapté à une utilisation dans les lieux de Classe I, Division 2, de Groupes A, B, C et D; Classe II, Division 2, Groupes F et G; Classe III lieu dangereux. Boîtier de type 4X, IP66. Plage de température ambiante -50°C (-58°F) à 71°C (160°F).
1	ATEX AND IEC SPECIFIC CONDITIONS OF USE: DIMENSIONS OF THE FLAMEPROOF JOINTS ARE OTHER THAN THE RELEVANT MINIMUM OR MAXIMUM SPECIFIED IN TABLES 1 THROUGH 2 OF EN 60079-1/IEC 60079-1. PRESSURE OPERATED SWITCHES ARE TO BE MARKED WITH AN "X" AND THE DIMENSIONS OF THE FLAMEPROOF JOINTS ARE AS FOLLOWS:	Conditions spécifiques d'utilisation ATEX et IEC: Les dimensions des joints antidéflagrants sont différentes du minimum ou du maximum spécifié dans les tableaux 1 à 2 de la norme EN 60079-1/IEC 60079-1. Les pressostats doivent être marqués d'un "X" et les dimensions des joints antidéflagrants sont listées page 1.
1	ATEX AND IEC SPECIFIC CONDITION OF USE: THE DEVICE MUST BE CLEANED WITH A DAMP CLOTH TO AVOID STATIC DISCHARGE.	Condition spécifique d'utilisation ATEX et IEC: l'appareil doit être nettoyé à l'aide d'un chiffon humide afin d'éviter les décharges électrostatiques.
1	ATEX AND IEC SPECIFIC CONDITION OF USE: ENCLOSURE CONTAINS ALUMINUM. CARE MUST BE TAKEN TO AVOID IGNITION HAZARD DUE TO IMPACT OR FRICTION.	Condition spécifique d'utilisation ATEX et IEC: Le boîtier contient de l'aluminium. Des précautions doivent être prises pour éviter tout risque d'inflammation dû à un choc ou à un frottement.
1	THIS PRODUCT DOES NOT HAVE ANY FIELD REPLACEABLE PARTS. ANY SUBSTITUTION OF COMPONENTS WILL INVALIDATE THIRD-PARTY ISSUED APPROVALS AND CERTIFICATIONS, AND MAY IMPAIR SUITABILITY FOR CLASS I, DIVISION 1 LOCATION.	Aucun composant ne peut être remplacé sur le terrain. Tout remplacement de composant invalidera toutes les approbations et certifications données par un tiers. L'appareil peut alors ne plus être adapté à une utilisation dans un lieu de Classe I, Division 1.
1	TO PREVENT IGNITION OF HAZARDOUS ATMOSPHERES, DISCONNECT SUPPLY CIRCUITS BEFORE OPENING. KEEP COVER TIGHT WHILE CIRCUITS ARE ENERGIZED.	Pour éviter l'inflammation d'atmosphères dangereuses, déconnecter les circuits d'alimentation avant d'ouvrir l'appareil. Maintenir le couvercle fermé lorsque les circuits sont sous tension.
2	INSTALL DEVICE WHERE SHOCK, VIBRATION AND TEMPERATURE FLUCTUATIONS ARE MINIMAL. DO NOT MOUNT DEVICE IN AMBIENT TEMPERATURES THAT EXCEED THE LIMITS ON THE NAMEPLATE FOR THE APPROPRIATE AREA	Installer l'appareil dans un endroit où les chocs, les vibrations et les variations de température sont minimales. Ne pas installer l'appareil dans un lieu où les températures ambiantes dépassent les limites indiquées sur la plaque signalétique de l'appareil.
2	DEVICE IS PROVIDED WITH TWO 3/4" NPT ELECTRICAL CONDUIT OPENINGS, EITHER OF WHICH OR BOTH CAN BE USED DURING INSTALLATION. A 3/4" EXPLOSION-PROOF PLUG IS PROVIDED FOR PROPERLY PLUGGING THE UNUSED CONDUIT OPENING. THE EXPLOSION-PROOF PLUG MUST BE PROPERLY INSTALLED AND IS CERTIFIED AS PART OF THE DEVICE AND CARRIES NO INDIVIDUAL MARKINGS.	L'appareil possède deux ouvertures de conduit électrique de 3/4" NPT, l'une ou les deux pouvant être utilisées lors de l'installation. Un presse-étoupe antidéflagrant de 3/4" est fourni pour obturer correctement l'ouverture de conduit non utilisée. Le presse-étoupe antidéflagrant doit être correctement installé et est certifié en tant que partie de l'appareil et n'a donc pas de marquage individuel.
2	THE CONNECTION OF THE DEVICE SHALL BE MADE BY CABLE ENTRIES OR A STOPPING BOX SUITABLE FOR THE CONDITIONS OF USE AND CORRECTLY INSTALLED, AND CERTIFIED BY TYPE OF EXPLOSION PROTECTION - FLAMEPROOF ENCLOSURE 'd'.	Le raccordement de l'appareil doit être effectué par des presse-étoupes ou par une boîte de jonction certifiée selon le mode de protection requis Ex "d" et correctement installée.
3	DISCONNECT ALL SUPPLY CIRCUITS BEFORE WIRING DEVICE. WIRE DEVICE IN ACCORDANCE WITH LOCAL AND NATIONAL ELECTRICAL CODES. MAXIMUM RECOMMENDED WIRE SIZE IS 14 AWG AND RECOMMENDED TIGHTENING TORQUE FOR FIELD WIRING TERMINALS IS 7 TO 17 IN-LBS. IT IS IMPERATIVE TO USE PROPERLY RATED EXPLOSION-PROOF SEALING FITTINGS FOR ELECTRICAL WIRE ENTRY.	Avant le branchement de l'appareil, déconnecter l'installation sur laquelle l'appareil doit être monté. Réaliser le branchement électrique selon les codes électriques nationaux et locaux. Le diamètre maximal recommandé pour les fils est de 14 AWG. Le couple de serrage pour la borne de raccordement est de 7 à 17 IN-LBS. Il est impératif d'utiliser des raccords d'étanchéité antidéflagrants correctement dimensionnés pour l'entrée des fils électriques.
3	USE 90 °C (194 °F) MIN. RATED COPPER CONDUCTOR ONLY. FOR AMBIENT TEMPERATURES BELOW -10 °C (14 °F), USE SUITABLE FIELD WIRING.	Le câblage d'alimentation en cuivre doit être homologué 90°C minimum. Pour des températures ambiantes inférieures à -10°C, utiliser un câblage d'alimentation de terrain approprié.
3	DO NOT EXCEED ELECTRICAL RATINGS LISTED ON NAMEPLATE. OVERLOAD ON A SWITCH CAN CAUSE FAILURE, EVEN ON THE FIRST CYCLE.	Les seuils électriques indiqués dans la documentation et sur les plaques signalétiques ne doivent jamais être dépassés. La surtension peut causer une panne de l'appareil dès les premiers cycles.
3	THE EXTERNAL GROUNDING TERMINAL IS NOT TO BE USED AS THE PRIMARY EQUIPMENT GROUNDING TERMINAL. THE INTERNAL GROUNDING TERMINAL SHALL BE USED AS THE PRIMARY EQUIPMENT GROUNDING MEANS AND THE EXTERNAL GROUNDING TERMINAL IS ONLY FOR A SUPPLEMENTAL (SECONDARY) GROUNDING CONNECTION WHERE LOCAL AUTHORITIES PERMIT OR REQUIRE SUCH A CONNECTION.	La borne de mise à la terre externe de l'appareil ne doit pas être utilisée comme borne primaire de mise à la terre de tout l'équipement. La borne de mise à la terre interne doit être utilisée comme moyen de mise à la terre primaire et la borne de mise à la terre externe n'est que supplémentaire (secondaire) lorsque la réglementation locale l'autorise ou l'exige.
3	TO PREVENT IGNITION OF HAZARDOUS ATMOSPHERES, SEAL CONDUIT RUNS WITHIN 18 INCHES OF ENCLOSURE	Pour éviter l'inflammation d'atmosphères dangereuses, sceller les conduits électriques situés à moins de 18 pouces du boîtier.

### TERMS AND CONDITIONS OF SALE



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