

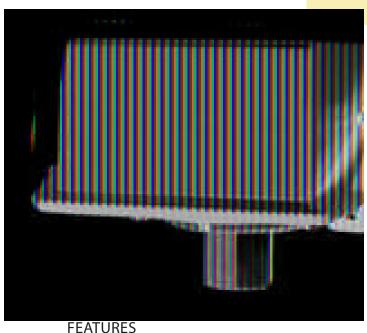
PRESSURE, VACUUM, DIFFERENTIAL PRESSURE AND TEMPERATURE SWITCHES











- 1, 2 & 3 switch outputs
- · Epoxy-coated enclosure designed to meet enclosure type 4X
- · Wide variety of pressure sensors and materials
- Setting via reference dial or hex screw adjustment
- · FM approved
- Adjustable Ranges:

"WC ranges: 300 "wc vacuum to 250 "wc pressure (-746,7 to 622,3 mbar)

Pressure: 30 "Hg Vac to 6000 psi

(-1,0 to 413,7 bar)

Differential Pressure: 1"wcd to 200 psid

(2.5 mbar to 13,8 bar)

Temperature: -125 to 650 °F

(-87.2 to 343.3 °C)





OVERVIEW

The 400 Series is a versatile family of vacuum, pressure, differential pressureand temperatures witches for applications that requires ingle or multiple switching capabilities. Dual and triple switch versions provide multi-output for alarm and shutdown, pre-alarm and alarm, high/low limit or level staging functions.

A wide variety of microswitch and process connection options, along with a weather-tight enclosure, make the 400 Series an ideal choice for most ordinary location applications. Its worldwide use is assured with approvals and certifications to agency standards.

Widely used throughout the process industries, the 400 Series provides threshold protection and control for many critical functions. Typical installations are found in industrial gas production, energy generation including pumps, turbines and compressors, pulp and paper, and water and wastewater treatment.

FEATURES

- UL listed and cUL certified.
 FM approved.
- CE compliant to low voltage directive and pressure equipment directive.
- Optional ATEX or EAC intrinsic safety compliance.
- One, two or three switch outputs may be separated up to 100% of range.
- Wide variety of available options and pressure sensor modules.
- Most models available for immediate delivery.



Enlarged View



Differential Pressure Model with M210 Option - Dial Indication



H403, 3 SPDT outputs with internal adjustment and reference dial



Dual Switch, Low Water Column Differential Pressure Model

SPECIFICATIONS

AMBIENT TEMPERATURE -40 to 160°F (-40 to 71°C); set point typically shifts less than 1% of range for

LIMITS a 50°F (28°C) ambient temperature change

SET POINT Temperature models: $\pm 2\%$ of full scale range

REPEATABILITY Pressure: models 126-376, 520-535, 540-547, 570-572, S126B-S164B: ± 2% of

full scale range; models 440-457, 550-559: ± 1% of full scale range; models

610-614: ± 3% of full scale range

SHOCK Set point repeats after 15 G, 10 millisecond duration

VIBRATION Set point repeats after 2.5 G, 5-500 Hz

ENCLOSURE Die cast aluminum, epoxy powder coated, gasketed, captive cover screws

ENCLOSURE Designed to meet enclosure type 4X requirements

CLASSIFICATION

SWITCH OUTPUT One, two or three SPDT switches, may be separated up to 100% of range

except models 521-524, 531-534: 50%; models 520, 525, 530, 535, 570-572:

30%; switches may be wired "normally open" or "normally closed"

ELECTRICAL RATING 15 A 125/250/480 VAC resistive. Electrical switches have limited DC

capabilities; at 24-30 VDC, 2A resistive and 1A inductive; at 125 VDC,

0.5A resistive and 0.03A inductive. Consult factory for additional information.

WEIGHT Approx. 3 to 7.5 lbs.; varies with model

ELECTRICAL One 3/4" NPT and two 7/8" diameter knockouts

CONNECTION

PRESSURE All models 1/4" NPT (female) except models S126B-S164B, 520-535: 1/2" NPT

CONNECTION (female); models 540-547: 1/8" NPT (female)

TEMPERATURE 'E' types use the same assemblies as 'F' types, however, range spans are limited

ASSEMBLY due to use of reference dials

Bulb and capillary: 6 feet 304 stainless steel

Immersion stem: models 120 &121: nickel-plated brass; optional 316L v

stainless steel available

FILL Temperature Models: Non-toxic oil filled

TEMPERATURE

Type F typically 1% and type E, B & C typically 2% of range under laboratory conditions (70°F ambient circulating bath at rate of 1/2°F per minute change)

DIFFERENTIAL Differential pressure indication available J400K, J402K models 147-S157B;

PRESSURE INDICATOR accuracy approximately 1-1/2% mid 50% of range, 3%

at ends; window is (OPTION M210) plexiglass and gasketed; indicator may be field

adjusted for approximately $\pm 1\%$ accuracy at any set point within range

400-B 10 WWW.UEONLINE.COM



APPROVALS



UNITED STATES AND CANADA

Type 400 & 402

UL Listed, cUL Certified

Pressure: UL 508; CSA C22.2 No. 14, file # E42272 Temperature: UL 873; CSA C22.2 No. 24, file # E10667



Type 403

UL Recognized, cUL Recognized

Pressure: UL 508; CSA C22.2 No. 14, file # E42272 Temperature: UL 873; CSA C22.2 No. 24, file # E10667



All Types FM Approved Pressure: Class 3510

EUROPE

ATEX Directive (2014/34/EU)

Temperature: Class 3545

II 1 G Ex ia IIC T6 Ga (OPTIONAL – code M405)



Tamb = -50° C to $+60^{\circ}$ C

UL International DEMKO A/S (N.B.# 0539) Certificate # DEMKO 11 ATEX 1105621X

EN 60079-0, 60079-11

Low Voltage Directive (LVD) (2014/35/EU)

Compliant to LVD

Products rated lower than 50 VAC and 75 VDC are outside of the scope of the LVD

Pressure Equipment Directive (PED) (2014/68/EU)

Compliant to PED

Products rated below 7.5 PSI are outside the scope of PED



EURASIAN CUSTOMS UNION (Russia, Belarus, Kazakhstan, Kyrgyzstan, and Armenia)

EAC Customs Union Certificate (OPTIONAL – code M406)

0Ex ia IICT6 Ga X

Tamb = -50° C to $+60^{\circ}$ C

NANIO CCVE Certified

Certificate RU C-US.AA87.B.00503/20

ΓΟCT 31610.0-2014 (IEC 60079-0:2011), ΓΟCT IEC 60079-1-2011, ΓΟCT 31610.11-2014 (IEC 60079-11-2011), ΓΟCT 31610.26-2012 (IEC 60079-26:2006),

ΓΟCT IEC 60079-31-2013



CHINA

CCC (Optional code M408 for China nameplates with cert & logo) Ex ia IIC T6 Ga

-50°C ≤ Tamb ≤ +60°C

CCC Certificate number: 2020322304002958

GB/T 3836.1-2021, GB/T 3836.4-2021

Brazil

Ex ia IIC T6 Ga

-50°C ≤ Ta ≤ +60°C

ABNT NBR IEC 60079-0 ABNT NBR IEC 60079-11 ABNT NBR IEC 60079-26

UL-BR 15.0169X

INMETRO (OPTIONAL – code M391)

Type J400, single switch output with internal hex screw adjustment Type J402, dual switch output with internal hex screw adjustment Type J403, triple switch output with internal hex screw adjustment

Model	Adjustable Set Poi	nt Range	Deadband		Over Range	Pressure*	Proof Pro	essure**
	Low end of range o	n fall;	Deadband do	ubles for				
	High end of range	on rise	2 and 3 switch	types				
	"wc	mbar	"WC	mbar	psi	bar	psi	bar
Buna-N	diaphragm and O-Ring	g with epoxy coate	ed aluminum 1/2	"NPT (female) pressui	re connection. la	arge 0.72" orifice	e for clean-	out
	s. Other wetted mater				,			
520†	300 Vac to 0	-746,7 to 0	0.2 to 12	0,5 to 29,9	100	6,9	100	6,9
521†	10 Vac to 10	-24,9 to 24,9	0.1 to 1	0,2 to 2,5	100	6,9	100	6,9
522†	50 Vac to 50	-124,5 to 124,5	0.1 to 5	0,2 to 12,4	100	6,9	100	6,9
523†	0.5 to 5.0	1,2 to 12,4	0.1 to 0.3	0,2 to 0,7	100	6,9	100	6,9
524†	2.5 to 50	6,2 to 124,5	0.1 to 2	0,2 to 5,0	100	6,9	100	6,9
525†	10 to 250	24,9 to 622,3	0.1 to 10	0,2 to 24,9	100	6,9	100	6,9
Welded :	316L stainless steel dia	phragm and 1/2" I	NPT (female) pre	ssure connection, larg	je 0.72″ orifice fo	or clean-out pur	poses; Opti	ion M449
recomm		. 3						
530†	300 Vac to 0	-746,7 to 0	0.2 to 15	0,5 to 37,3	50	3,4	100	6,9
531†	10 Vac to 10	-24,9 to 24,9	0.1 to 1	0,2 to 2,5	50	3,4	100	6,9
532†	50 Vac to 50	-124,5 to 124,5	0.1 to 6	0,2 to 14,9	50	3,4	100	6,9
533†	0.5 to 5.0	1,2 to 12,4	0.1 to 0.3	0,2 to 0,7	50	3,4	100	6,9
534†	2.5 to 50	6,2 to 124,5	0.1 to 2.5	0,2 to 6,2	50	3,4	100	6,9
535†	10 to 250	24,9 to 622,3	0.1 to 10	0,2 to 24,9	50	3,4	100	6,9
	psi	bar	psi	bar	psi	bar	psi	bar
	(unless noted)	(unless noted)	(unless noted)	(unless noted)	(unless noted)	(unless noted)	•	
316L sta	inless steel diaphragm	and Viton® O-Ring	g with 316L stain	less steel 1/4" NPT (fe	male) pressure o	connection		
570¹	0 to 20	0 to 1,4	0.2 to 4	13,8 to 275,8 mbar	20	1,4	225	15,5
571 ¹	0 to 50	0 to 3,4	0.7 to 6	48,3 to 413,7 mbar	50	3,4	225	15,5
572 ¹	0 to 100	0 to 6,9	1 to 7	0,1 to 0,5	100	6,9	225	15,5
Welded :	316L stainless steel be	llows and 1/2" NPT	(female) pressu	re connection				
S126B	30 "Hg Vac to 0	-1 to 0	0.2 to 0.9 "Hg	6,8 to 30,5 mbar	3	0,2	5	0,3
S134B	30 "Hg Vac to 20 psi		0.2 to 0.5 Tig	6,8 to 40,6 mbar	20	1,4	25	1,7
S137B	0 to 80 "wc	0 to 199,1 mbar	2 to 6 "wc	5 to 14,9 mbar	80 "wc	199,1 mbar	5	0,3
S144B	0 to 30 WC	0 to 1,4	0.1 to 0.5	6,9 to 34,5 mbar	20	1,4	25	1,7
S146B	0 to 30	0 to 2,1	0.1 to 0.5	6,9 to 41,4 mbar	30	2,1	40	2,8
S156B	0 to 100	0 to 6,9	0.1 to 0.8	13,8 to 55,2 mbar	100	6,9	125	2,6 8,6
S164B	0 to 200	0 to 13,8	0.2 to 0.8 0.3 to 2	20,7 to 137,9 mbar	200	0,9 13,8	200	0,0 13,8
					200	13,0	200	13,0
	316L stainless steel be							
358	0 to 200	0 to 13,8	1.5 to 8	0,1 to 0,6	200	13,8	250	17,2
361	0 to 300	0 to 20,7	2 to 9	0,1 to 0,6	300	20,7	350	24,1
376	0 to 500	0 to 34,5	3 to 12	0,2 to 0,8	500	34,5	575	39,6

^{*}Over Range Pressure: The maximum pressure that may be applied continuously without causing damage and maintaining set point repeatability

4 0 0 - B 10 W W W . U E O N L I N E . C O M

^{**}Proof pressure: The maximum pressure to which a pressure sensor may be subjected, which causes no permanent damage. The unit may require calibration (e.g. start-up, testing). † Model not available on types J400 and J403; actual deadband shown, do not double – switch separation a maximum of 30 - 50% of range.

¹Switch separation of 30% maximum for dual and triple switch units.



Type J400, single switch output with internal hex screw adjustment Type J402, dual switch output with internal hex screw adjustment Type J403, triple switch output with internal hex screw adjustment

Model	Adjustable Set Poi	nt Range	Deadband		Over	Range Pressure*	Proof F	ressure*
	Low end of range o High end of range o		Deadband dou 2 and 3 switch					
	psi (unless noted)	bar (unless noted)	psi	bar	psi (unless	bar s noted)	psi	bar
	less steel piston with B				ure coni	nection (not recom	mended	for gas
	nce drying of the O-Rin							
610				to 10,3 6,00		413,7	10,000	689,5
612				to 17,2 6,00		413,7	10,000	689,5
614	500 to 6,000	34,5 to 413,7 50	to 400 3,4	to 27,6 6,00)0	413,7	10,000	689,5
Brass bello	ws with nickel-plated b	rass 1/4"NPT (female)	pressure connect	ion; Models 126 and 13	34havezi	inc-plated steel spr	ingexpos	edtomed
126	30 "Hg Vac to 0	-1 to 0	0.2" to 0.9 "Hg	6,8 to 30,5 mbar	3	0,2	5	0,3
134	30 "Hg Vac to 20 psi	-1 to 1,4	0.2" to 1.2 "Hg	6,8 to 40,6 mbar	20	1,4	25	1,7
137	0 to 80 "wc	0 to 199,1 mbar	2 to 6 "wc	5 to 14,9 mbar	3	0.2	5	0,3
144	0 to 20	0 to 1,4	0.1 to 0.5	6,9 to 34,5 mbar	20	1,4	25	1,7
146	0 to 30	0 to 2,1	0.1 to 0.6	6,9 to 41,4 mbar	30	2	40	2,8
156	0 to 100	0 to 6,9	0.2 to 0.8	13,8 to 55,2 mbar	100	6,9	125	8,6
164	0 to 200	0 to 13,8	0.3 to 2	20,7 to 137,9 mbar	200	13,8	200	13,8
Phosphor	bronze bellows with n	ickel-plated brass 1/4	4" NPT (female) pr	essure connection				
Позрног								
	0 to 200		<u> </u>		200	13,8	250	17,2
270 274	0 to 200 0 to 300	0 to 13,8 0 to 20,7	1.5 to 8 2 to 10	0,1 to 0,6 0,1 to 0,7	300	13,8 20,7	350	17,2 24,1
270 274 Buna-N dia pressure c	0 to 200 0 to 300 aphragmand O-Ring with connection and cap	0 to 13,8 0 to 20,7 ith aluminum 1/4″NP	1.5 to 8 2 to 10 T (female) pressur	0,1 to 0,6 0,1 to 0,7 econnection and cap;	300 Models	20,7 148,450,16156&45	350 52 have sta	24,1 ainless ste
270 274 Buna-N di pressure c	0 to 200 0 to 300 aphragm and O-Ring with connection and cap 0 to 2 "wc	0 to 13,8 0 to 20,7 ith aluminum 1/4"NP 0 to 5 mbar	1.5 to 8 2 to 10 T (female) pressur 0.07 to 0.25 "wc	0,1 to 0,6 0,1 to 0,7 econnection and cap; 0,2 to 0,6 mbar	300 Models ²	20,7 148,450,16156&45 0,2	350 52 have sta 225	24,1 ainless ste 15,5
270 274 Buna-N di pressure c 440++ 441+++	0 to 200 0 to 300 aphragm and O-Ring with connection and cap 0 to 2 "wc 0 to 10 "wc	0 to 13,8 0 to 20,7 ith aluminum 1/4"NP 0 to 5 mbar 0 to 24,9 mbar	1.5 to 8 2 to 10 T (female) pressur 0.07 to 0.25 "wc 0.15 to 0.4 "wc	0,1 to 0,6 0,1 to 0,7 econnection and cap; 0,2 to 0,6 mbar 0,4 to 1,0 mbar	300 Models 4	20,7 148,450,16156&45 0,2 0,2	350 52 have sta 225 225	24,1 ainless ste 15,5 15,5
270 274 Buna-Ndi pressure c 440++ 441+++ 442	0 to 200 0 to 300 aphragm and O-Ring we connection and cap 0 to 2 "wc 0 to 10 "wc 0 to 20 "wc	0 to 13,8 0 to 20,7 ith aluminum 1/4"NP 0 to 5 mbar 0 to 24,9 mbar 0 to 49,8 mbar	1.5 to 8 2 to 10 T (female) pressur 0.07 to 0.25 "wc 0.15 to 0.4 "wc 0.2 to 0.6 "wc	0,1 to 0,6 0,1 to 0,7 econnection and cap; 0,2 to 0,6 mbar 0,4 to 1,0 mbar 0,5 to 1,5 mbar	300 Models 4 3 3 3	20,7 148,450,16156&45 0,2 0,2 0,2 0,2	350 52 have sta 225 225 225 225	24,1 ninless ste 15,5 15,5 15,5
270 274 Buna-N di pressure c 440++ 441+++ 442 16156++	0 to 200 0 to 300 aphragm and O-Ring we connection and cap 0 to 2 "wc 0 to 10 "wc 0 to 20 "wc -20 to 20 "wc	0 to 13,8 0 to 20,7 ith aluminum 1/4"NP 0 to 5 mbar 0 to 24,9 mbar 0 to 49,8 mbar -49,8 to 49,8 mbar	1.5 to 8 2 to 10 T (female) pressur 0.07 to 0.25 "wc 0.15 to 0.4 "wc 0.2 to 0.6 "wc 0.5 to 2 "wc	0,1 to 0,6 0,1 to 0,7 econnection and cap; 0,2 to 0,6 mbar 0,4 to 1,0 mbar 0,5 to 1,5 mbar 1,2 to 5,0 mbar	300 Models 4 3 3 3 3	20,7 148,450,16156&45 0,2 0,2 0,2 0,2 0,2	350 52 have sta 225 225 225 225 225	24,1 ninless ster 15,5 15,5 15,5
270 274 Buna-N di pressure c 440++ 441+++ 442 16156++ 443	0 to 200 0 to 300 aphragm and O-Ring we connection and cap 0 to 2 "wc 0 to 10 "wc 0 to 20 "wc -20 to 20 "wc 0 to 80 "wc	0 to 13,8 0 to 20,7 (th aluminum 1/4"NP 0 to 5 mbar 0 to 24,9 mbar 0 to 49,8 mbar -49,8 to 49,8 mbar 0 to 199,1 mbar	1.5 to 8 2 to 10 T (female) pressur 0.07 to 0.25 "wc 0.15 to 0.4 "wc 0.2 to 0.6 "wc 0.5 to 2 "wc 0.5 to 2 "wc	0,1 to 0,6 0,1 to 0,7 econnection and cap; 0,2 to 0,6 mbar 0,4 to 1,0 mbar 0,5 to 1,5 mbar 1,2 to 5,0 mbar 1,2 to 5,0 mbar	300 Models 4 3 3 3 3 3 3	20,7 148,450,16156&45 0,2 0,2 0,2 0,2 0,2 0,2	350 52 have sta 225 225 225 225 225 225	24,1 ninless ste 15,5 15,5 15,5 15,5
270 274 Buna-N di pressure c 440++ 441+++ 442 16156++ 443	0 to 200 0 to 300 aphragmand O-Ring we connection and cap 0 to 2 "wc 0 to 10 "wc 0 to 20 "wc -20 to 20 "wc 0 to 80 "wc 80 "wc Vac to 0	0 to 13,8 0 to 20,7 ith aluminum 1/4"NP 0 to 5 mbar 0 to 24,9 mbar 0 to 49,8 mbar -49,8 to 49,8 mbar	1.5 to 8 2 to 10 T (female) pressur 0.07 to 0.25 "wc 0.15 to 0.4 "wc 0.2 to 0.6 "wc 0.5 to 2 "wc 1 to 3 "wc	0,1 to 0,6 0,1 to 0,7 econnection and cap; 0,2 to 0,6 mbar 0,4 to 1,0 mbar 0,5 to 1,5 mbar 1,2 to 5,0 mbar 1,2 to 5,0 mbar 2,5 to 7,5 mbar	300 Models 4 3 3 3 3 3 3 3	20,7 148,450,16156&45 0,2 0,2 0,2 0,2 0,2 0,2 0,2	350 22 have sta 225 225 225 225 225 225 225 225	24,1 ninless ste 15,5 15,5 15,5 15,5 15,5
270 274 Buna-N di pressure c 440†† 441††† 442 16156†† 443 448 449†††	0 to 200 0 to 300 aphragmand O-Ring we connection and cap 0 to 2 "wc 0 to 10 "wc 0 to 20 "wc -20 to 20 "wc 0 to 80 "wc 80 "wc Vac to 0 0 to 20 "wc	0 to 13,8 0 to 20,7 (th aluminum 1/4"NP 0 to 5 mbar 0 to 24,9 mbar 0 to 49,8 mbar -49,8 to 49,8 mbar 0 to 199,1 mbar -199,1 to 0 mbar 0 to 49,8 mbar	1.5 to 8 2 to 10 T (female) pressur 0.07 to 0.25 "wc 0.15 to 0.4 "wc 0.2 to 0.6 "wc 0.5 to 2 "wc 1 to 3 "wc 1 to 2 "wc	0,1 to 0,6 0,1 to 0,7 econnection and cap; 0,2 to 0,6 mbar 0,4 to 1,0 mbar 0,5 to 1,5 mbar 1,2 to 5,0 mbar 1,2 to 5,0 mbar	300 Models 2 3 3 3 3 3 3 3 3	20,7 148,450,16156&45 0,2 0,2 0,2 0,2 0,2 0,2 0,2 0,2	350 22 have sta 225 225 225 225 225 225 225 225 225	24,1 ninless ste 15,5 15,5 15,5 15,5 15,5 15,5
270 274 Buna-N di pressure c 440†† 441††† 442 16156†† 443 448 449†††	0 to 200 0 to 300 aphragmand O-Ring we connection and cap 0 to 2 "wc 0 to 10 "wc 0 to 20 "wc -20 to 20 "wc 0 to 80 "wc 80 "wc Vac to 0	0 to 13,8 0 to 20,7 (th aluminum 1/4"NP 0 to 5 mbar 0 to 24,9 mbar 0 to 49,8 mbar -49,8 to 49,8 mbar 0 to 199,1 mbar -199,1 to 0 mbar 0 to 49,8 mbar -1 to 0	1.5 to 8 2 to 10 T (female) pressur 0.07 to 0.25 "wc 0.15 to 0.4 "wc 0.2 to 0.6 "wc 0.5 to 2 "wc 1 to 3 "wc	0,1 to 0,6 0,1 to 0,7 econnection and cap; 0,2 to 0,6 mbar 0,4 to 1,0 mbar 0,5 to 1,5 mbar 1,2 to 5,0 mbar 1,2 to 5,0 mbar 2,5 to 7,5 mbar	300 Models 4 3 3 3 3 3 3 3 3 3 3	20,7 148,450,16156&45 0,2 0,2 0,2 0,2 0,2 0,2 0,2 0,2	350 22 have sta 225 225 225 225 225 225 225 225	24,1 ninless ste 15,5 15,5 15,5 15,5 15,5 15,5
270 274 Buna-N dia pressure of 440†† 441††† 442 16156†† 443 448 449††† 450	0 to 200 0 to 300 aphragmand O-Ring we connection and cap 0 to 2 "wc 0 to 10 "wc 0 to 20 "wc -20 to 20 "wc 0 to 80 "wc 80 "wc Vac to 0 0 to 20 "wc	0 to 13,8 0 to 20,7 (th aluminum 1/4"NP 0 to 5 mbar 0 to 24,9 mbar 0 to 49,8 mbar -49,8 to 49,8 mbar 0 to 199,1 mbar -199,1 to 0 mbar 0 to 49,8 mbar	1.5 to 8 2 to 10 T (female) pressur 0.07 to 0.25 "wc 0.15 to 0.4 "wc 0.2 to 0.6 "wc 0.5 to 2 "wc 1 to 3 "wc 1 to 2 "wc	0,1 to 0,6 0,1 to 0,7 econnection and cap; 0,2 to 0,6 mbar 0,4 to 1,0 mbar 0,5 to 1,5 mbar 1,2 to 5,0 mbar 1,2 to 5,0 mbar 2,5 to 7,5 mbar 2,5 to 5,0 mbar	300 Models 2 3 3 3 3 3 3 3 3	20,7 148,450,16156&45 0,2 0,2 0,2 0,2 0,2 0,2 0,2 0,2	350 22 have sta 225 225 225 225 225 225 225 225 225	24,1 ninless ste 15,5 15,5 15,5 15,5 15,5 15,5
270 274 Buna-N dia pressure of 440†† 441††† 442 16156†† 443 448 449††† 450 451	0 to 200 0 to 300 aphragm and O-Ring we connection and cap 0 to 2 "wc 0 to 10 "wc 0 to 20 "wc -20 to 20 "wc 0 to 80 "wc 80 "wc Vac to 0 0 to 20 "wc 30 "Hg Vac to 0	0 to 13,8 0 to 20,7 (th aluminum 1/4"NP 0 to 5 mbar 0 to 24,9 mbar 0 to 49,8 mbar -49,8 to 49,8 mbar 0 to 199,1 mbar -199,1 to 0 mbar 0 to 49,8 mbar -1 to 0	1.5 to 8 2 to 10 T (female) pressur 0.07 to 0.25 "wc 0.15 to 0.4 "wc 0.2 to 0.6 "wc 0.5 to 2 "wc 1 to 3 "wc 1 to 2 "wc 0.1 to 0.4 "Hg 1 to 3 "wc 0.2 to 1 "Hg	0,1 to 0,6 0,1 to 0,7 econnection and cap; 0,2 to 0,6 mbar 0,4 to 1,0 mbar 0,5 to 1,5 mbar 1,2 to 5,0 mbar 1,2 to 5,0 mbar 2,5 to 7,5 mbar 2,5 to 5,0 mbar 3,4 to 13,5 mbar 2,5 to 7,5 mbar 6,8 to 33,9 mbar	300 Models 4 3 3 3 3 3 3 3 3 3 3	20,7 148,450,16156&45 0,2 0,2 0,2 0,2 0,2 0,2 0,2 0,2 0,2 0,	225 225 225 225 225 225 225 225 225 225	24,1 ainless ste 15,5 15,5 15,5 15,5 15,5 15,5 15,5 15,
270 274 Buna-N di pressure o 440†† 441††† 442 16156†† 443 448 449††† 450 451 452	0 to 200 0 to 300 aphragm and O-Ring we connection and cap 0 to 2 "wc 0 to 10 "wc 0 to 20 "wc -20 to 20 "wc 0 to 80 "wc 80 "wc Vac to 0 0 to 20 "wc 30 "Hg Vac to 0 0 to 80 "wc	0 to 13,8 0 to 20,7 (th aluminum 1/4"NP 0 to 5 mbar 0 to 24,9 mbar 0 to 49,8 mbar -49,8 to 49,8 mbar 0 to 199,1 mbar -199,1 to 0 mbar 0 to 49,8 mbar -1 to 0 0 to 199,1 mbar	1.5 to 8 2 to 10 T (female) pressur 0.07 to 0.25 "wc 0.15 to 0.4 "wc 0.2 to 0.6 "wc 0.5 to 2 "wc 1 to 3 "wc 1 to 2 "wc 0.1 to 0.4 "Hg 1 to 3 "wc 0.2 to 1 "Hg 0.05 to 0.2	0,1 to 0,6 0,1 to 0,7 econnection and cap; 0,2 to 0,6 mbar 0,4 to 1,0 mbar 0,5 to 1,5 mbar 1,2 to 5,0 mbar 1,2 to 5,0 mbar 2,5 to 7,5 mbar 2,5 to 5,0 mbar 3,4 to 13,5 mbar 2,5 to 7,5 mbar	300 Models 4 3 3 3 3 3 3 3 3 3 3 3 3 3	20,7 148,450,16156&45 0,2 0,2 0,2 0,2 0,2 0,2 0,2 0,2 0,2 0,	350 22 have sta 225 225 225 225 225 225 225 225 225 22	24,1 ainless ste 15,5 15,5 15,5 15,5 15,5 15,5 15,5 15,
270 274 Buna-N di pressure o 440†† 441††† 442 16156†† 443 448 449††† 450 451 452 453	0 to 200 0 to 300 aphragm and O-Ring witconnection and cap 0 to 2 "wc 0 to 10 "wc 0 to 20 "wc -20 to 20 "wc 0 to 80 "wc 80 "wc Vac to 0 0 to 20 "wc 30 "Hg Vac to 0 0 to 80 "wc 30 "Hg Vac to 20 psi	0 to 13,8 0 to 20,7 (th aluminum 1/4"NP 0 to 5 mbar 0 to 24,9 mbar 0 to 49,8 mbar -49,8 to 49,8 mbar 0 to 199,1 mbar -199,1 to 0 mbar 0 to 49,8 mbar -1 to 0 0 to 199,1 mbar -1 to 0	1.5 to 8 2 to 10 T (female) pressur 0.07 to 0.25 "wc 0.15 to 0.4 "wc 0.2 to 0.6 "wc 0.5 to 2 "wc 1 to 3 "wc 1 to 2 "wc 0.1 to 0.4 "Hg 1 to 3 "wc 0.2 to 1 "Hg	0,1 to 0,6 0,1 to 0,7 econnection and cap; 0,2 to 0,6 mbar 0,4 to 1,0 mbar 0,5 to 1,5 mbar 1,2 to 5,0 mbar 1,2 to 5,0 mbar 2,5 to 7,5 mbar 2,5 to 5,0 mbar 3,4 to 13,5 mbar 2,5 to 7,5 mbar 6,8 to 33,9 mbar	300 Models 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 20	20,7 148,450,16156&45 0,2 0,2 0,2 0,2 0,2 0,2 0,2 0,2 0,2 0,	225 225 225 225 225 225 225 225 225 225	24,1 ainless ste 15,5
270 274 Buna-Ndia pressure of 440++ 441+++ 442 16156++ 443 448 449+++ 450 451 452 453 454	0 to 200 0 to 300 aphragm and O-Ring witennection and cap 0 to 2 "wc 0 to 10 "wc 0 to 20 "wc -20 to 20 "wc 0 to 80 "wc 80 "wc Vac to 0 0 to 20 "wc 30 "Hg Vac to 0 0 to 80 "wc 30 "Hg Vac to 20 psi 0 to 20	0 to 13,8 0 to 20,7 ith aluminum 1/4"NP 0 to 5 mbar 0 to 24,9 mbar 0 to 49,8 mbar -49,8 to 49,8 mbar -199,1 to 0 mbar 0 to 49,8 mbar -1 to 0 0 to 199,1 mbar -1 to 0 0 to 199,1 mbar -1 to 1,4 0 to 1,4 0 to 2,1	1.5 to 8 2 to 10 T (female) pressur 0.07 to 0.25 "wc 0.15 to 0.4 "wc 0.2 to 0.6 "wc 0.5 to 2 "wc 1 to 3 "wc 1 to 2 "wc 0.1 to 0.4 "Hg 1 to 3 "wc 0.2 to 1 "Hg 0.05 to 0.2 0.05 to 0.3	0,1 to 0,6 0,1 to 0,7 econnection and cap; 0,2 to 0,6 mbar 0,4 to 1,0 mbar 0,5 to 1,5 mbar 1,2 to 5,0 mbar 2,5 to 7,5 mbar 2,5 to 5,0 mbar 3,4 to 13,5 mbar 6,8 to 33,9 mbar 3,4 to 13,8 mbar 3,4 to 20,7 mbar	300 Models 4 3 3 3 3 3 3 3 3 3 3 20 20 30	20,7 148,450,16156&45 0,2 0,2 0,2 0,2 0,2 0,2 0,2 1,4 1,4 2,1	225 225 225 225 225 225 225 225 225 225	24,1 ainless ste 15,5 15,5 15,5 15,5 15,5 15,5 15,5 15,
270 274 Buna-Ndia pressure of 440†† 441††† 442 16156†† 443 448 449††† 450 451 452 453 454 Teflon® dia	0 to 200 0 to 300 aphragm and O-Ring with connection and cap 0 to 2 "wc 0 to 10 "wc 0 to 20 "wc -20 to 20 "wc 0 to 80 "wc 80 "wc Vac to 0 0 to 20 "wc 30 "Hg Vac to 0 0 to 80 "wc 30 "Hg Vac to 20 psi 0 to 20 0 to 30	0 to 13,8 0 to 20,7 ith aluminum 1/4"NP 0 to 5 mbar 0 to 24,9 mbar 0 to 49,8 mbar -49,8 to 49,8 mbar -199,1 to 0 mbar 0 to 49,8 mbar -1 to 0 0 to 199,1 mbar -1 to 0 0 to 199,1 mbar -1 to 1,4 0 to 1,4 0 to 2,1	1.5 to 8 2 to 10 T (female) pressur 0.07 to 0.25 "wc 0.15 to 0.4 "wc 0.2 to 0.6 "wc 0.5 to 2 "wc 1 to 3 "wc 1 to 2 "wc 0.1 to 0.4 "Hg 1 to 3 "wc 0.2 to 1 "Hg 0.05 to 0.2 0.05 to 0.3	0,1 to 0,6 0,1 to 0,7 econnection and cap; 0,2 to 0,6 mbar 0,4 to 1,0 mbar 0,5 to 1,5 mbar 1,2 to 5,0 mbar 2,5 to 7,5 mbar 2,5 to 5,0 mbar 3,4 to 13,5 mbar 6,8 to 33,9 mbar 3,4 to 13,8 mbar 3,4 to 20,7 mbar	300 Models 4 3 3 3 3 3 3 3 3 3 3 20 20 30	20,7 148,450,16156&45 0,2 0,2 0,2 0,2 0,2 0,2 0,2 1,4 1,4 2,1	225 225 225 225 225 225 225 225 225 225	24,1 ninless ste 15,5 15,5 15,5 15,5 15,5 15,5 15,5 15,
270 274 Buna-Ndia pressure of 440†† 441††† 442 16156†† 443 448 449††† 450 451 452 453 454 Teflon® dia	0 to 200 0 to 300 aphragm and O-Ring with connection and cap 0 to 2 "wc 0 to 10 "wc 0 to 20 "wc -20 to 20 "wc 0 to 80 "wc 80 "wc Vac to 0 0 to 20 "wc 30 "Hg Vac to 0 0 to 80 "wc 30 "Hg Vac to 20 psi 0 to 20 0 to 30 aphragm and Viton® O-	0 to 13,8 0 to 20,7 Ith aluminum 1/4"NP 0 to 5 mbar 0 to 24,9 mbar 0 to 49,8 mbar -49,8 to 49,8 mbar 0 to 199,1 mbar -199,1 to 0 mbar 0 to 49,8 mbar -1 to 0 0 to 199,1 mbar -1 to 0,4 0 to 1,4 0 to 2,1	1.5 to 8 2 to 10 T (female) pressur 0.07 to 0.25 "wc 0.15 to 0.4 "wc 0.2 to 0.6 "wc 0.5 to 2 "wc 1 to 3 "wc 1 to 2 "wc 0.1 to 0.4 "Hg 1 to 3 "wc 0.2 to 1 "Hg 0.05 to 0.2 0.05 to 0.3 lless steel 1/4" NP	0,1 to 0,6 0,1 to 0,7 econnection and cap; 0,2 to 0,6 mbar 0,4 to 1,0 mbar 0,5 to 1,5 mbar 1,2 to 5,0 mbar 2,5 to 5,0 mbar 2,5 to 5,0 mbar 3,4 to 13,5 mbar 2,5 to 7,5 mbar 6,8 to 33,9 mbar 3,4 to 13,8 mbar 3,4 to 20,7 mbar	300 Models 4 3 3 3 3 3 3 3 3 3 20 20 30	20,7 148,450,16156&45 0,2 0,2 0,2 0,2 0,2 0,2 0,2 1,4 1,4 2,1 n and cap	225 225 225 225 225 225 225 225 225 225	24,1 ainless ste 15,5 15,5 15,5 15,5 15,5 15,5 15,5 15,
270 274 Buna-Ndia pressure of 440†† 441††† 441 16156†† 443 448 449††† 450 451 452 453 454 Teflon® dia 550 551	0 to 200 0 to 300 aphragm and O-Ring with connection and cap 0 to 2 "wc 0 to 10 "wc 0 to 20 "wc -20 to 20 "wc 0 to 80 "wc 80 "wc Vac to 0 0 to 20 "wc 30 "Hg Vac to 20 psi 0 to 20 0 to 30 aphragm and Viton® O- 30 "Hg Vac to 0	0 to 13,8 0 to 20,7 Ith aluminum 1/4"NP 0 to 5 mbar 0 to 24,9 mbar 0 to 49,8 mbar -49,8 to 49,8 mbar 0 to 199,1 mbar -199,1 to 0 mbar 0 to 49,8 mbar -1 to 0 0 to 199,1 mbar -1 to 0,4 0 to 1,4 0 to 2,1 Ring with 316L stain	1.5 to 8 2 to 10 T (female) pressur 0.07 to 0.25 "wc 0.15 to 0.4 "wc 0.2 to 0.6 "wc 0.5 to 2 "wc 1 to 3 "wc 1 to 2 "wc 0.1 to 0.4 "Hg 1 to 3 "wc 0.2 to 1 "Hg 0.05 to 0.2 0.05 to 0.3 less steel 1/4" NP	0,1 to 0,6 0,1 to 0,7 econnection and cap; 0,2 to 0,6 mbar 0,4 to 1,0 mbar 0,5 to 1,5 mbar 1,2 to 5,0 mbar 2,5 to 5,0 mbar 2,5 to 5,0 mbar 3,4 to 13,5 mbar 2,5 to 7,5 mbar 6,8 to 33,9 mbar 3,4 to 13,8 mbar 3,4 to 20,7 mbar (female) pressure co	300 Models 4 3 3 3 3 3 3 3 3 3 20 20 30 nnectior	20,7 148,450,16156&45 0,2 0,2 0,2 0,2 0,2 0,2 0,2 1,4 1,4 2,1 n and cap 0,2 0,2	225 225 225 225 225 225 225 225 225 225	24,1 ainless ste 15,5 15,5 15,5 15,5 15,5 15,5 15,5 15,
270 274 Buna-Ndia pressure of 440†† 441††† 441 16156†† 443 448 449††† 450 451 452 453 454 Teflon® dia 550 551 552	0 to 200 0 to 300 aphragm and O-Ring with connection and cap 0 to 2 "wc 0 to 10 "wc 0 to 20 "wc -20 to 20 "wc 0 to 80 "wc 80 "wc Vac to 0 0 to 20 "wc 30 "Hg Vac to 0 0 to 20 0 to 30 aphragm and Viton® O- 30 "Hg Vac to 0 0 to 80 "wc	0 to 13,8 0 to 20,7 Ith aluminum 1/4"NP 0 to 5 mbar 0 to 24,9 mbar 0 to 49,8 mbar -49,8 to 49,8 mbar 0 to 199,1 mbar -1 to 0 0 to 199,1 mbar -1 to 0 0 to 1,4 0 to 1,4 0 to 2,1 Ring with 316L stain	1.5 to 8 2 to 10 T (female) pressur 0.07 to 0.25 "wc 0.15 to 0.4 "wc 0.2 to 0.6 "wc 0.5 to 2 "wc 1 to 3 "wc 1 to 2 "wc 0.1 to 0.4 "Hg 1 to 3 "wc 0.2 to 1 "Hg 0.05 to 0.2 0.05 to 0.3 Less steel 1/4" NP 0.1 to 0.6 "Hg 1.5 to 3.5 "wc	0,1 to 0,6 0,1 to 0,7 econnection and cap; 0,2 to 0,6 mbar 0,4 to 1,0 mbar 0,5 to 1,5 mbar 1,2 to 5,0 mbar 2,5 to 7,5 mbar 2,5 to 5,0 mbar 3,4 to 13,5 mbar 2,5 to 7,5 mbar 6,8 to 33,9 mbar 3,4 to 13,8 mbar 3,4 to 20,7 mbar T (female) pressure co	300 Models 4 3 3 3 3 3 3 3 3 3 20 20 30 nnection 3 3	0,2 0,2 0,2 0,2 0,2 0,2 0,2 0,2 0,2 0,2	225 225 225 225 225 225 225 225 225 225	24,1 ainless ste 15,5 15,5 15,5 15,5 15,5 15,5 15,5 15,
270 274 Buna-Ndii pressure c 440†† 441††† 442 16156†† 443 448 449††† 450 451 452 453 454	0 to 200 0 to 300 aphragm and O-Ring with connection and cap 0 to 2 "wc 0 to 10 "wc 0 to 20 "wc -20 to 20 "wc 0 to 80 "wc 80 "wc Vac to 0 0 to 20 "wc 30 "Hg Vac to 20 psi 0 to 20 0 to 30 aphragm and Viton® O- 30 "Hg Vac to 0 0 to 80 "wc 30 "Hg Vac to 0	0 to 13,8 0 to 20,7 ith aluminum 1/4"NP 0 to 5 mbar 0 to 24,9 mbar 0 to 49,8 mbar -49,8 to 49,8 mbar -199,1 to 0 mbar 0 to 49,8 mbar -1 to 0 0 to 199,1 mbar -1 to 1,4 0 to 1,4 0 to 2,1 Ring with 316L stain -1 to 0 0 to 199,1 mbar -1 to 0 0 to 199,1 mbar	1.5 to 8 2 to 10 T (female) pressur 0.07 to 0.25 "wc 0.15 to 0.4 "wc 0.2 to 0.6 "wc 0.5 to 2 "wc 1 to 3 "wc 1 to 2 "wc 0.1 to 0.4 "Hg 1 to 3 "wc 0.2 to 1 "Hg 0.05 to 0.2 0.05 to 0.3 Less steel 1/4" NP 0.1 to 0.6 "Hg 1.5 to 3.5 "wc 0.2 to 1 "Hg	0,1 to 0,6 0,1 to 0,7 econnection and cap; 0,2 to 0,6 mbar 0,4 to 1,0 mbar 0,5 to 1,5 mbar 1,2 to 5,0 mbar 2,5 to 7,5 mbar 2,5 to 5,0 mbar 3,4 to 13,5 mbar 6,8 to 33,9 mbar 3,4 to 20,7 mbar T (female) pressure co	300 Models 4 3 3 3 3 3 3 3 3 20 20 30 nnection 3 3 20	20,7 148,450,16156&45 0,2 0,2 0,2 0,2 0,2 0,2 0,2 1,4 1,4 2,1 n and cap 0,2 0,2	225 225 225 225 225 225 225 225 225 225	24,1 ainless ste 15,5 15,5 15,5 15,5 15,5 15,5 15,5 15,

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Type H400, single switch output with internal adjustment via reference dial Type H402, dual switch output with internal adjustment via reference dial Type H403, triple switch output with internal adjustment via reference dial

Scale Division	essure**	Proof P		Deadband	t Range	Adjustable Set Poin	Model
			oles for	Deadband doul	n rise	High end of range or	
			ypes	2 and 3 switch t	fall;	Low end of range on	
psi	bar	psi	bar	psi	bar	psi	
(unless noted)		•	(unless noted)	(unless noted)	(unless noted)	(unless noted)	
			ection	ale) pressure conne	ows and 1/2" NPT (fem	316L stainless steel bello	Welded 3
2 "Hg	0,3	5	6,8 to 30,5 mbar	0.2 to 0.9 "Hg	-1 to 0	30 "Hg Vac to 0	S126B
2 "Hg & 2 psi	1,7	25	6,8 to 40,6 mbar	0.2 to 0.9 Tig	-1 to 1,4	30 "Hg Vac to 20 psi	S134B
5 "wc	0,3	5	5 to 14,9 mbar	2 to 6 "wc	0 to 199,1 mbar	0 to 80 "wc	S137B†
1	1,7	25	6,9 to 34,5 mbar	0.1 to 0.5	0 to 1,4	0 to 20	S144B
1	2,8	40	6,9 to 41,4 mbar	0.1 to 0.5 0.1 to 0.6	0 to 1,4 0 to 2,1	0 to 30	S144B
5	2,6 8,6	125	13,8 to 55,2 mbar	0.1 to 0.8	0 to 6,9	0 to 100	S156B
10	13,8	200	20,7 to 137,9 mbar	0.3 to 2	0 to 13,8	0 to 200	S164B
			ection	ale) pressure conne	ows and 1/4" NPT (fem	316L stainless steel bello	Welded 3
10	17,2	250	0,1 to 0,6	1.5 to 8	0 to 13,8	0 to 200	358
10	24,1	350	0,1 to 0,6	2 to 9	0 to 20,7	0 to 300	361
20	39,6	575	0,2 to 0,8	3 to 12	0 to 34,5	0 to 500	376
g exposed to med	ated steel spri	ave zinc-pl	on; Models 126 and 134 h	pressure connectio	orass 1/4"NPT (female)	lows with nickel-plated b	Brass bell
2 "Hg	0,3	5	6,8 to 30,5 mbar	0.2 to 0.9 "Hg	-1 to 0	30 "Hg Vac to 0	126
2 "Hg & 2 psi	1,7	25	6,8 to 40,6 mbar	0.2 to 1.2 "Hg	-1 to 1,4	30 "Hg Vac to 20 psi	134
5 ″wc	0,3	5	5 to 14,9 mbar	2 to 6 "wc	0 to 199,1 mbar	0 to 80 "wc	137†
1	1,7	25	6,9 to 34,5 mbar	0.1 to 0.5	0 to 1,4	0 to 20	144
1	2,8	40	6,9 to 41,4 mbar	0.1 to 0.6	0 to 2,1	0 to 30	146
5	8,6	125	13,8 to 55,2 mbar	0.2 to 0.8	0 to 6,9	0 to 100	156
10	13,8	200	20,7 to 137,9 mbar	0.2 to 0.8 0.3 to 2	0 to 13,8	0 to 200	164
			sure connection	NPT (female) press	ickel plated brass 1/4"	r bronze bellows with n	Phospho
10	17.2	250		<u>.</u>	· · · · · · · · · · · · · · · · · · ·		
10 10	17,2 24,1	250 350	0,1 to 0,6 0,1 to 0,7	1.5 to 8 2 to 10	0 to 13,8 0 to 20,7	0 to 200 0 to 300	270†† 274††
10	27,1	330	0,1 to 0,7	2 to 10	0 to 20,7	0 10 300	
inless steel pressu) & 452 have st	els 448, 450	onnection and cap; Mod	(female) pressure c	ith aluminum 1/4"NPT	liaphragmand O-Ring wi on and cap	
0.5 "wc	15,5	225	0.4 to 1.0 mbar	0.15 to 0.4 "wc	0 to 24.9 mbar	0 to 10 "wc	441†
1 "wc							
5 "wc							
5 "wc					•		
					•		
2 "Hg				_		_	
2 "Hg & 2 psi				_	•		
1	15,5		3,4 to 13,8 mbar	0.05 to 0.2 0.05 to 0.3	0 to 1,4	0 to 20 0 to 30	453†† 454††
1	15,5	225	3,4 to 20,7 mbar		0 to 2,1		
	15,5 15,5 15,5 15,5 15,5 15,5	225 225 225 225 225 225 225 225 225	0,4 to 1,0 mbar 0,5 to 1,5 mbar 1,2 to 5,0 mbar 2,5 to 7,5 mbar 3,4 to 13,5 mbar 3,4 to 33,9 mbar	0.15 to 0.4 "wc 0.2 to 0.6 "wc 0.5 to 2 "wc 1 to 3 "wc 0.1 to 0.4 "Hg 0.1 to 1 "Hg	0 to 24,9 mbar 0 to 49,8 mbar 0 to 199,1 mbar -199,1 to 0 mbar -1 to 0 -1 to 1,4	on and cap 0 to 10 "wc 0 to 20 "wc 0 to 80 "wc 80 "wc Vac to 0 30 "Hg Vac to 20 psi	connection 441† 442† 443† 448† 450†† 452††

^{**}Proof pressure: The maximum pressure to which a pressure sensor may be subjected, which causes no permanent damage. The unit may require calibration (e.g. start-up, testing). † Model not available on types H402 and H403

400-B 10

^{††} Model not available on type H403



Type H400, single switch output with internal adjustment via reference dial Type H402, dual switch output with internal adjustment via reference dial Type H403, triple switch output with internal adjustment via reference dial

Model	Adjustable Set Point Low end of range on High end of range on	fall;	Deadband Deadband doub 2 and 3 switch t		Proof	Pressure**	Scale Division
	psi (unless noted)	bar (unless noted)	psi (unless noted)	bar (unless noted)	psi	bar	psi (unless noted)
Teflon® diap	hragm and Viton® O-Ring	g with 316L stainless s	steel 1/4" NPT (fema	ale) pressure connectio	n and ca	р	
550††	30 "Hg Vac to 0	-1 to 0	0.1 to 0.6 "Hg	3,4 to 20,3 mbar	225	15,5	2 "Hg
552††	30 "Hg Vac to 20 psi	-1 to 1,4	0.2 to 1 "Hg	6,8 to 33,9 mbar	225	15,5	2 "Hg & 2 psi
553††	0 to 20	0 to 1,4	0.05 to 0.3	3,4 to 20,7 mbar	225	15,5	1
554††	0 to 30	0 to 2,1	0.1 to 0.4	6,9 to 27,6 mbar	225	15,5	1
555††	0 to 100	0 to 6,9	0.25 to 0.75	17,2 to 51,7 mbar	225	15,5	5

^{**}Proof pressure: The maximum pressure to which a pressure sensor may be subjected, which causes no permanent damage. The unit may require calibration (e.g. start-up, testing). † Model not available on types H402 and H403

DIFFERENTIAL PRESSURE MODEL CHART

Type J400K, single switch output with internal hex screw adjustment Type J402K, dual switch output with internal hex screw adjustment

Model	Adjustable Set Low end of ran High end of ran	ge on fall:	Deadband Deadband d 2 switch typ		Working Pressure	***	Proof Pr	essure**
	psid (unless noted)	bar (unless noted)	psi (unless noted)	mbar	psi	bar	psi	bar
Welded 31	6L stainless steel	bellows and 1/2" NPT (female) pressu	re connections				
S147B S157B	3 to 30 10 to 100	0,2 to 2,1 0,7 to 6,9	0.5 to 2 0.5 to 3	34,5 to 137,9 34,5 to 206,8	30 "Hg Vac to 100 30 "Hg Vac to 180	-1 to 6,9 -1 to 12,4	300 300	20,7 20,7
Brass bello	ws with nickel-pla	ated brass 1/4" NPT (fe	male) pressure	connections				
147 157	3 to 30 10 to 100	0,2 to 2,1 0,7 to 6,9	0.5 to 2 0.5 to 3	34,5 to 137,9 34,5 to 206,8	30 "Hg Vac to 100 30 "Hg Vac to 150	-1 to 6,9 -1 to 10,3	180 180	12,4 12,4
Buna-N dia	phragm and O-R	ing with aluminum 1/4	NPT (female)	pressure connection	ons			
455 456 457 15747†††	5 to 80 "wcd 2 to 20 3 to 30 10 to 200 "wcd	12,4 to 199,1 mbar 0,1 to 1,4 0,2 to 2,1 24,9 to 497,8 mbar	1 to 4 "wc 0.1 to 0.3 0.1 to 0.4 1 to 10 "wc	2,5 to 10 6,9 to 20,7 6,9 to 27,6 2,5 to 24,9 mbar	30 "Hg Vac to 225 30 "Hg Vac to 225 30 "Hg Vac to 225 30 "Hg Vac to 225	-1 to 15,5 -1 to 15,5 -1 to 15,5 -1 to 15,5	225 225 225 225 225	15,5 15,5 15,5 15,5

^{***}Working Pressure Range: The pressure range within which two opposing sensors can be safely operated and still maintain set point adjustability. ††† Model not available on type J402K

^{††} Model not available on type H403

DIFFERENTIAL PRESSURE MODEL CHART

Type J400K, single switch output with internal hex screw adjustment Type J402K, dual switch output with internal hex screw adjustment

Model	l Adjustable Set Point Range		Deadband	Deadband		Working Pressure***Proof Pressure**			
	Low end of ran High end of rar		Deadband do 2 switch type						
	psid (unless noted)	bar (unless noted)	psi (unless noted)	bar (unless noted)	psi	bar	psi	bar	
Buna-N	diaphragms and	o-ring with epoxy coa	ted aluminum 1	1/8"NPT (female) pres	sure connections (J402	K only); Option	M449 recom	mended	
540†	1 to 7 "wcd	2.5 to 17,4 mbar	0.1 to 0.5"wc	0,2 to 1,2 mbar	30 "Hg Vac to 200	-1 to 13,8	400	27,6	
541†	2 to 20 "wcd	5 to 49,8 mbar	0.5 to 2 "wc	1,2 to 5 mbar	30 "Hg Vac to 200	-1 to 13,8	400	27,6	
542†	5 to 50 "wcd	12,4 to 124,5 mbar	0.5 to 5 "wc	1,2 to 12,4 mbar	30 "Hg Vac to 200	-1 to 13,8	400	27,6	
543†	15 to 100 "wcd	37,3 to 248,9 mbar	0.5 to 7 "wc	1,2 to 17,4 mbar	30 "Hg Vac to 200	-1 to 13,8	400	27,6	
544†	2 to 20	0,1 to 1,4	1 to 2.5	0,1 to 0,2	30 "Hg Vac to 1200	-1 to 82,7	2500	172,4	
545†	5 to 50	0,3 to 3,4	1 to 3	0,1 to 0,2	30 "Hg Vac to 1200	-1 to 82,7	2500	172,4	
546†	10 to 100	0,7 to 6,9	1 to 5	0,1 to 0,3	30 "Hg Vac to 1200	-1 to 82,7	2500	172,4	
547†	20 to 200	1,4 to 13,8	1 to 7	0,1 to 0,5	30 "Hg Vac to 1200	-1 to 82,7	2500	172,4	
Teflon®	and Buna-N diap	hragms, Buna-N O-Ri	ng with alumin	um 1/4" NPT (female)	pressure connections				
559	10 to 100	0,7 to 6,9	0.2 to 1	13,8 to 68,9 mbar	30 "Hg Vac to 225	-1 to 15,5	225	15,5	
Type H	100K single sw	itch output with in	tornal adjustm	nent via reference d	ial				
туреп	400K, single sw	iten output with in	terriai aujustii	ient via reference d	iai				

Type H402K, dual switch output with internal adjustment via reference dial

Buna-l	N diaphragm and	O-Ring with 1/4" NPT	(female) alum	inum pressure connec	tions			
455	5 to 80 "wcd	12,4 to 199,1 mbar	1 to 4 "wc	2,5 to 10 mbar	30 "Hg Vac to 225	-1 to 15,5	225	15,5
456	2 to 20	0,1 to 1,4	0.1 to 0.3	6,9 to 20,7 mbar	30 "Hg Vac to 225	-1 to 15,5	225	15,5
457	3 to 30	0,2 to 2,1	0.1 to 0.4	6,9 to 27,6 mbar	30 "Hg Vac to 225	-1 to 15,5	225	15,5
Teflon	and Buna-N diap	hragms, Buna-N O-Rin	g with 1/4" NP	T (female) aluminum	pressure connections			
559	10 to 100	0,7 to 6,9	0.2 to 1	13,8 to 68,9 mbar	30 "Hg Vac to 225	-1 to 15,5	225	15,5

^{***}Working Pressure Range: The pressure range within which two opposing sensors can be safely operated and still maintain set point adjustability.

4 0 0 - B 1 0

[†] Model not available on type J400K



TEMPERATURE MODEL CHART

Type B400, single switch output, immersion stem, internal adjustment via reference dial Type B402, dual switch output, immersion stem, internal adjustment via reference dial Type B403, triple switch output, immersion stem, internal adjustment via reference dial Type C400, single switch output, immersion stem, internal hex screw adjustment Type C402, dual switch output, immersion stem, internal hex screw adjustment Type E400, single switch output, immersion stem, internal hex screw adjustment Type E400, single switch output, bulb & capillary***, internal adjustment via reference dial Type E402, dual switch output, bulb & capillary***, internal adjustment via reference dial Type F403, triple switch output, bulb & capillary***, internal hex screw adjustment Type F402, dual switch output, bulb & capillary***, internal hex screw adjustment Type F403, triple switch output, bulb & capillary***, internal hex screw adjustment Type F403, triple switch output, bulb & capillary***, internal hex screw adjustment

Model	Adjustable Se	et Point Range	Max. Te	mp.		Scale I	Division++ StemorBulbSize*/Finish**
	°F	°C	°F	°C	°F	°C	OD x Length
	_	dual, or triple switch o dual, or triple switch o	•		•		
120	0 to 225	-17.8 to 107.2	275	135	5	5 5	9/16" x 1-7/8" nickel-plated brass
121	200 to 425	93.3 to 218.3	475	246.1	5		9/16" x 1-7/8" nickel-plated brass
туре £400, і	E402, E403, Single,	dual, or triple switch ou	itput, buib &	capillary"", ir	iternai adju	stment via	reference diai
2BSA	-120 to 100	-84.4 to 37.8	150	65.6	10	5	3/8 x 2-5/8"
2BSB	30 to 250	-1.1 to 121.1	300	148.9	10	5	3/8 x 2-5/8"
3BS	100 to 400	37.8 to 204.4	450	232.2	10	10	3/8 x 2-1/8"
4BS	25 to 100	-3.9 to 37.8	150	65.6	5	2	3/8 x 6-3/4"
5BS	-20 to 80	-28.9 to 26.7	130	54.4	5	2	3/8 x 5"
8BS	350 to 640	176.7 to 337.8	690	365.6	10	10	3/8 x 3-1/4"
Type F400, I	F402, F403, single,	dual, or triple switch ou	utput, bulb &	capillary***, ir	nternal hex	screw adju	stment
2BS	-125 to 350	-87.2 to 176.7	400	204.4	N/A		3/8 x 2-5/8"
3BS	-125 to 500	-87.2 to 260	550	287.8	N/A		3/8 x 2-1/8"
4BS	-40 to 120	-40 to 48.9	170	76.7	N/A		3/8 x 6-3/4"
5BS	-40 to 180	-40 to 82.2	230	110	N/A		3/8 x 5"
6BS	0 to 250	-17.8 to 121.1	300	148.9	N/A		3/8 x 4-1/2"
7BS	0 to 400	-17.8 to 204.4	450	232.2	N/A		3/8 x 3"
8BS	50 to 650	10 to 343.3	700	371.1	N/A		3/8 x 3-1/4"

 $[\]dagger\dagger$ Only applies to types B400, B402, B403, E400, E402 and E403

^{*} Optional immersion stem lengths and capillary lengths are available

^{**} Optional stainless steel immersion stem and capillary covering available

^{***} Standard capillary lengths are 6ft

HOW TO ORDER

BUILDING A PART NUMBER

Select a Type

Refer to the "Type" section below.

Determine type number based on switch output, enclosure, adjustment and reference.

Fill in the type portion of your part number with the corresponding number.

Select a Model

Refer to the "Model Charts".

Determine model based on adjustable range, deadband and proof pressure.

Fill in the model portion of your part number with the corresponding number.

Select an Option

Refer to the "Options" section.

Determine option number based on switch output, optional materials, or other product enhancements.

Fill in the option portion of your part number with the corresponding number.

Leave "option" portion blank if no options are needed.

ire needed.

FOR MULTIPLE OPTIONS: Call United Electric Controls.

TYPF	DESCRIPTION
IIFE	DESCRIPTION

PRESSURE Type J400 - One SPDT output; internal hex screw adjustment

Type J402 - Two SPDT outputs; internal hex screw adjustment
Type J403 - Three SPDT outputs; internal hex screw adjustment

Type H400 - One SPDT output; internal adjustment with reference dial Type H402 - Two SPDT outputs; internal adjustment with reference dial Type H403 - Three SPDT outputs; internal adjustment with reference dial

DIFFERENTIAL PRESSURE Type J400K - One SPDT output; internal hex screw adjustment

Type J402K - Two SPDT outputs; internal hex screw adjustment

Type H400K - One SPDT output; internal adjustment with reference dial Type H402K - Two SPDT outputs; internal adjustment with reference dial

TEMPERATURE Type B400 - Immersion stem; one SPDT output; internal adjustment with reference dial

Type B402 - Immersion stem; two SPDT outputs; internal adjustment with reference dial Type B403 - Immersion stem; three SPDT outputs; internal adjustment with reference dial

Type C400 - Immersion stem; one SPDT output; internal hex screw adjustment Type C402 - Immersion stem; two SPDT outputs; internal hex screw adjustment

Type C403 - Immersion stem; three SPDT outputs; internal hex screw adjustment

Type E400 - Bulb and capillary; one SPDT output; internal adjustment with reference dial

Type E402 - Bulb and capillary; two SPDT outputs; internal adjustment with reference dial

 $\label{thm:continuous} \textbf{Type E403-} \quad \textbf{Bulb and capillary; three SPDT outputs; internal adjustment with reference dialogs and the statement of the statemen$

Type F400 - Bulb and capillary; one SPDT output; internal hex screw adjustment

Type F402 - Bulb and capillary; two SPDT outputs; internal hex screw adjustment

Type F403 - Bulb and capillary; three SPDT outputs; internal hex screw adjustment



HOW TO ORDER OPTIONS

SWITCH OPTIONS*	DESCRIPTION
0140	Gold contacts, 1 A 125 VAC resistive. NOT AVAILABLE MODELS 440-443
0500	Close deadband, 5 A 125/250 VAC resistive. NOT AVAILABLE MODELS 440-443, 520-535 & 540-547
1010	DPDT switch, 10 A 125/250 VAC resistive; deadband and minimum set point will increase. NOT AVAILABLE
	TEMPERATURE VERSIONS, TYPE J403, TYPE H403 AND MODELS 440-449, 520-535, 540-547, 570-572
1070	10 A 125 VDC resistive; deadband and minimum set point will increase. NOT AVAILABLE TYPES B, E AND MODELS
	440-449, 520-535, 540-547, 570-572
1520	Adjustable deadband, 15 A 125/250/277 VAC resistive. Adjustment wheel changes rise setting only if adjustment
	on fall setting is required, use primary adjustment (see product Installation & Maintenance instructions for
	additional information or consult UE). NOTE: NOT AVAILABLE ON MIDDLE SWITCH FOR TYPE J403, C403 AND
	F403. NOT AVAILABLE TYPES B, E, H, OR MODELS 440-443, 520-535, 540-547, 570-572, 610-614
1530	External manual reset, 15 A 125/250/480 VAC resistive, latches on rise only. NOT AVAILABLE TRIPLE SWITCH
	VERSIONS, OR MODELS 440-443, 520-535, 570-572
1535	High ambient, 15 A 125/250/480 VAC resistive; temperatures up to 250°F/145°C. NOT AVAILABLE MODELS
	440-443, 520-535
1537	Vapor-sealed 15 A 125/250 VAC resistive. NOT AVAILABLE MODELS 440-443, 520-535
1539	Fungus resistant case, 15 A 125/250 VAC resistive. NOT AVAILABLE MODELS 440-443, 520-535
2000	20 A 125/250/480 VAC resistive. NOT AVAILABLE MODELS 440-443, 520-535, 540-547, 570-572
OTHER OPTIONS	
M020	Single red status light, 115 VAC only. Specify whether light goes on or off with increasing or decreasing
101020	pressure or temperature. NOT AVAILABLE J400K, H400K, J402K, H402K OR MODELS 440-443, 449, 16156,
	15747
M201	Factory set one switch; specify set point on increasing or decreasing pressure, differential pressure or temperature.
141201	NOT AVAILABLE DUAL OR TRIPLE SWITCH VERSIONS
M202	Factory set two switches; specify set points on increasing or decreasing pressure, differential pressure or temperature.
IVIZOZ	NOT ÁVAILABLE SINGLE OR TRIPLE SWITCH VERSIONS
M203	Factory set three switches; note: the third or middle switch must always be set to highest pressure or temperature
141203	when switches are set apart; specify set points on increasing or decreasing pressure, differential pressure or
	temperature. NOT AVAILABLE SINGLE OR DUAL SWITCH VERSIONS
M210	Differential pressure indication. AVAILABLE J400K AND J402K, MODEL 147, S147B, 157 & S157B, 15747
M277	Range indicated on nameplate in kPa or MPa, factory selected. NOT AVAILABLE TEMPERATURE VERSIONS
M278	Range indicated on nameplate in Kg/cm ² . NOT AVAILABLE TEMPERATURE VERSIONS
M391	Intrinsic safety for compliance for Brazil
M405	Intrinsic safety compliance for European Union per ATEX standards
M406	Intrinsic safety compliance for Russia per EAC standards
M444	Paper ID tag
M446	Stainless steel ID tag & wire attachment - Limited to 2 lines of 25 characters each max.
M449	Surface and pipe mounting hardware option for models 520 to 535 & 540 to 547. For all other models use the
	mounting hardware kit #6361-704
M504	316L Stainless steel immersion temperature stem. AVAILABLE TEMPERATURE MODELS 120, 121 ONLY
M540	Viton® construction (deadband and low end range may increase); wetted parts include Viton® with standard
	connection material. AVAILABLE MODELS 448-454 and 540-547. TYPES J400K & J402K MODELS 455-457
	include Viton® sealing diaphragms and O-rings with Teflon® main diaphragm. TYPES H400K & H402K MODELS
	456-457 include Viton® sealing diaphragms and O-rings with Teflon® main diaphragm. MODELS 610-614 (Viton®
	O-ring only).
M550	Oxygen service cleaning; alcohol cleaning to remove residue from the process connection.
	NOT AVAILABLE ON MODELS 440-443, 455-457, 559, 16156 and 15747
M900	Watertight conduit fitting; converts 7/8" hole to 1/2" NPT fitting. Required for product to meet NEMA 4X if using
	knockout holes for wiring
M913	1/4" NPT (female) stainless steel pressure connection. AVAILABLE MODELS S126B-S146B, S156B, S164B ONLY
M914	1/2" NPT (female) stainless steel pressure connection. AVAILABLE MODELS 358-376
M921	1/4" NPT (female) brass pressure connection. AVAILABLE MODELS 610-614, TYPE J402 ONLY
6361-704	Surface and pipe mount hardware kit for all models. Recommended for surface mounting needs 520-535 & 540-
	547, if not previously ordered with option M449.
SD6286-51	Watertight conduit fitting; converts 7/8" hole to 1/2" NPT (female) fitting, if not previously ordered with
	option M900

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HOW TO ORDER OPTIONS (CONTINUED)

OPTIONAL MATERIAL FOR "WC SENSORS: (AVAILABLE MODELS 520-525)

XC001 Aluminum pressure connection, Viton® diaphragm, Viton® O-Ring
XC002 Aluminum pressure connection, Kapton® diaphragm, Buna-N O-Ring
XC003 Aluminum pressure connection, Kapton® diaphragm, Viton® O-Ring

XC004 316L stainless steel pressure connection, 316L stainless steel diaphragm, Viton® O-Ring (Over range pressure is limited

to 100 psi)

XC005 316L stainless steel pressure connection, Viton® diaphragm, Viton® O-Ring XC007 316L stainless steel pressure connection, Teflon® diaphragm, Viton® O-Ring

OPTIONS FOR TEMPERATURE MODELS

UNION CONNECTORS**

For all bulb & capillary switches, types E and F

Option	Replacement Nu	umber Description
<u>Br</u>	<u>ass</u>	
W027	SD6213-27	1/2" NPT w/ 3/4" bushing
W045	SD6213-45	3/4" NPT
W051	SD6213-51	1/2" NPT
<u>30</u>	04 Stainless Steel	
W028	SD6213-28	1/2" NPT w/ 3/4" bushing
W046	SD6213-46	3/4" NPT
W050	SD6213-50	1/2" NPT

THERMOWELLS**

For all bulb & capillary switches, types E and F

	<u>Brass</u>	
W075	SD6225-75	1/2" NPT with 3/4" NPT adapter bushing, 4" BT
W191	SD6225-191	1/2" NPT, 4" BT
W118	SD6225-118	1/2" NPT with 3/4" NPT adapter bushing, 7" BT
W192	SD6225-192	1/2" NPT, 7" BT
	316 Stainless Steel	
W076	SD6225-76	3/4" NPT, 4.5" BT
W193	SD6225-193	1/2" NPT, 4.5" BT
W119	SD6225-119	3/4" NPT, 7.5" BT
W177	SD6225-177	1/2" NPT, 7.5" BT
	350223 177	<i>"= '', ' "</i>

For all immersion stem switches; types B and C

W139	SD6225-139	3/4" NPT X 1-23/32" BT, BRASS
W140	SD6225-140	3/4" NPT X 1-23/32" BT, 316 ST/ST

W000 IMMERSION STEM AND THERMOWELLS

Note: Option W000 is a special Immersion Stem construction that has no external thread. This option fits inside a special thermowell and is secured with a set-screw. Available on types B and C only.

Option	Description
W000	Immersion stem only, brass
W097	Immersion stem and thermowell. Includes W000 stem and 1/2" NPT x 1-23/32" BT brass thermowell
W099	Immersion stem and thermowell. Includes W000 stem and $1/2"$ NPT x 1-23/32" BT 316 st/st thermowell.

OPTIONAL LENGTHS:

Optional immersion stem lengths to 15" may be available in Brass, with or without 316 ST/ST thermowell. Consult UE for additional information and availability. Optional capillary length to *50' may be available in Copper or 304 ST/ST. Armor or Teflon® capillary protection may be available to lengths less than or equal to capillary length. Consult UE for additional information and availability.

4 0 0 - B 1 0

^{*} Consult UE regarding repeatability and ambient effects on capillary lengths over 30'.

^{**} Dimensional drawings for union connectors and thermowells may be found at www.ueonline.com

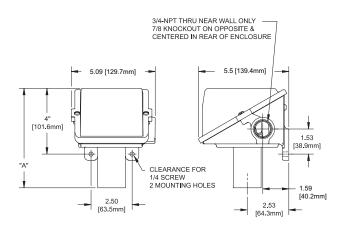


DIMENSIONAL DRAWINGS

Dimensional drawings for all models may be found at www.ueonline.com

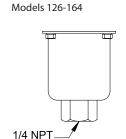
Internal Hex Screw Set Point Adjustment Types J400, J402, J403, J400K, J402K, C400, C402, C403, F400, F402, F403

Set Point Adjustment via Reference Dial Types H400, H402, H403, H400K, H402K, B400, B402, B403, E400, E402, E403

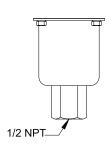


Dimension A					
Models	Inches	mm	NPT		
PRESSURE					
126-164	5.91	150.0	1/4		
S126B-S164B	6.31	160.3	1/2		
270-376	5.50	139.7	1/4		
440-443, 449					
451, 453, 454	4.28	108.7	1/4		
448, 450, 452, 16156	5.03	127.8	1/4		
520-525	8.25	209.6	1/2		
530-535	8.13	206.5	1/2		
551, 553-555	4.56	115.8	1/4		
550, 552	5.03	127.8	1/4		
570-572	4.56	115.8	1/4		
610-614	6.31	160.3	1/4		
DIFFERENTIALPRESSURE					
147-157	6.13	155.7	1/4		
S147B-S157B	6.13	155.7	1/2		
455-559, 15747	7.00	177.8	1/4		
540-543	7.97	202.4	1/8		
544-547	8.03	204.0	1/8		
TEMPERATURE					
120, 121	7.38	187.3	ImmersionStem		
2BS-8BS	6.72	170.7	Bulb&Capillary		

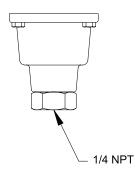
Pressure Sensors All dimensions stated in inches (millimeters)



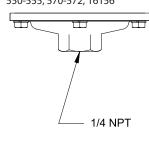
Models S126B-S164B



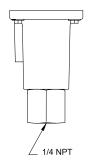
Models 270-376



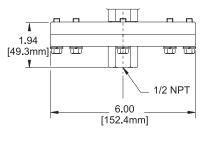
Models 440-454, 550-555, 570-572, 16156



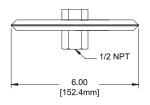




Models 520-525



Models 530-535

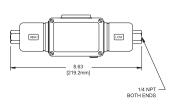


DIMENSIONAL DRAWINGS

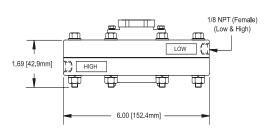
Dimensional drawings for all models may be found a twww.ue on line.com

Differential Pressure Sensors

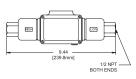
Models 147-157



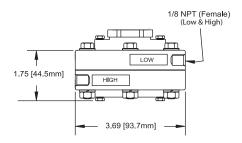
Models 540-543



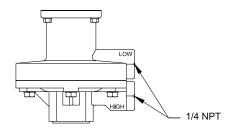
Models S147B-S157B



Models 544-547

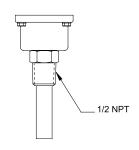


Models 455-457, 559, 15747



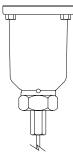
Temperature Sensors

Models 120-121



Local mount temperature version

Models 2BS-8BS



Remote mount temperature version

RECOMMENDED PRACTICES AND WARNINGS

United Electric Controls Company recommends careful consideration of the following factors when specifying and installing UE pressure and temperature units. Before installing a unit, the Installation and Maintenance instructions provided with unit must be read and understood.

- To avoid damaging unit, proof pressure and maximum temperature limits stated in literature and on name plates must never be exceeded, even by surges in the system. Operation of the unit up to maximum pressure or temperature is acceptable on a limited basis (e.g., start-up, testing) but continuous operation must be restricted to the designated adjust ablerange. Excessive cycling at maximum pressure or temperature limits could reduce sensor life.
- A back-up unit is necessary for applications where damage to a primary unit could endanger life, limb or property. A high or low limit switch is necessary for applications where a dangerous runaway condition could result.
- The adjustable range must be selected so that incorrect, inadvertentormalicioussettingatanyrangepointcannotresultin an unsafe system condition.
- Install unit where shock, vibration and ambient temperature fluctuations will not damage unit or affect operation. When applicable, orientunits othat moisturedoes not enter the enclosure via the electrical connection. When appropriate, this entry point should be sealed to prevent moisture entry.
- Unitmustnotbealteredormodifiedaftershipment.ConsultUEif modification is necessary.
- Monitor operation to observe warning signs of possible damage to unit, such as drift in set point or faulty display. Check unit immediately.
- Preventative maintenance and periodic testing is necessary for critical applications where damage could endanger property or personnel.
- Electrical ratings stated in literature and on nameplate must not be exceeded. Overload on a switch can cause damage, even on the first cycle. Wire unit according to local and national electrical codes, using wire size recommended in installation sheet.
- Do not mount unit in ambient temp. exceeding published limits.

LIMITED WARRANTY

Seller warrants that the product hereby purchased is, upon delivery, free from defects in material and workmanship and that any such product which is found to be defective in such workmanship or material will be repaired or replaced by Seller (Ex-works, Factory, Watertown, Massachusetts.INCOTERMS); provided, however, that this warranty applies only to equipment found to be so defective within a period of 24 months from the date of manufacture by the Seller. Seller shall not be obligated under this warranty for alleged defects which examination discloses are due to tampering, misuse, neglect, improper storage, and in any case where products are disassembled by anyone other than authorized Seller's representatives. EXCEPTFOR THE LIMITED WARRANTY OF REPAIR AND REPLACEMENT STATED ABOVE, SELLER DISCLAIMS ALL WARRANTIES WHATSOEVER WITH RESPECTTOTHE PRODUCT, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE.

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SELLER'S LIABILITY TO BUYER FOR ANY LOSS OR CLAIM, INCLUDING LIABILITY INCURRED IN CONNECTION WITH (I) BREACH OF ANY WARRANTY WHATSOEVER, EXPRESSED OR IMPLIED, (II) A BREACH OF CONTRACT, (III) A NEGLIGENT ACT OR ACTS (OR NEGLIGENT FAILURETO ACT) COMMITTED BY SELLER, OR (IV) AN ACT FOR WHICH STRICT LIABILITY WILL BE INPUTTED TO SELLER, IS LIMITED TO THE "LIMITED WARRANTY" OF REPAIR AND/OR REPLACEMENT AS SO STATED IN OUR WARRANTY OF PRODUCT. IN NO EVENT SHALL THE SELLER BE LIABLE FOR ANY SPECIAL, INDIRECT, CONSEQUENTIAL OR OTHER DAMAGES OF A LIKE GENERAL NATURE, INCLUDING, WITHOUTLIMITATION, LOSS OF PROFITS OR PRODUCTION, ORLOSS OR EXPENSES OF ANY NATURE INCURRED BY THE BUYER OR ANY THIRD PARTY

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