

H117- 520, H117- 521, H117-522, H117-530, H117-532,
H117-560, H117-565, H117-171 H117K-540, H117K-548,
H117K-544, H117K-545, B117-120, B117-121, E117- 2BSA,
E117- 5BS и др.

Взрывозащищенные реле давления, вакуума, перепада давления и температуры для Division 2 серии 117. Технические характеристики.



По вопросам продаж и поддержки обращайтесь:

Архангельск (8182)63-90-72
Астана +7(7172)727-132
Белгород (4722)40-23-64
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89
Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Казань (843)206-01-48

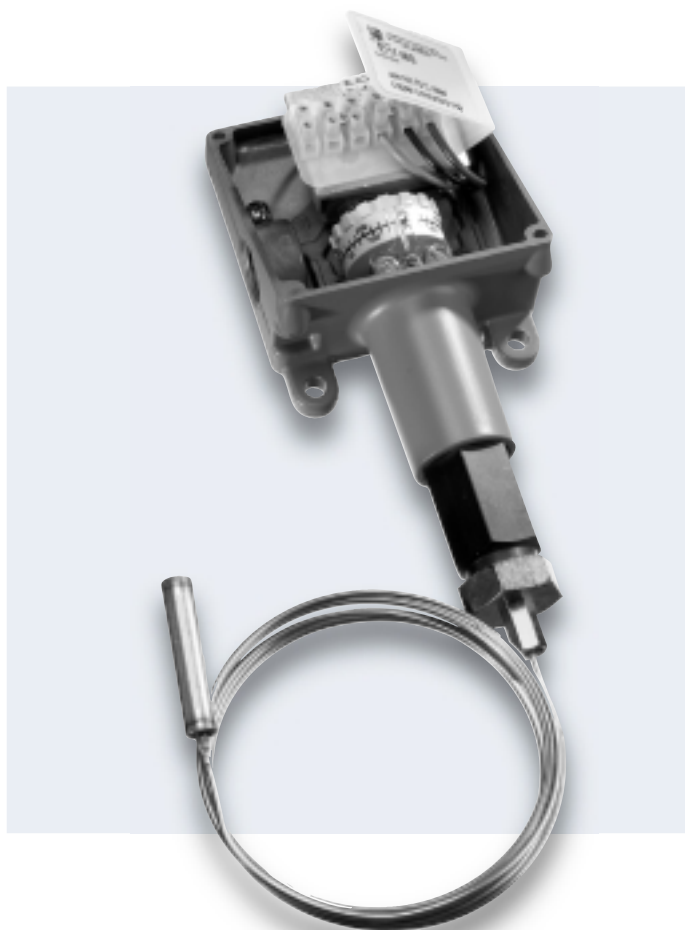
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Липецк (4742)52-20-81
Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41

Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
Новосибирск (383)227-86-73
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Пермь (342)205-81-47
Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78

Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Тверь (4822)63-31-35
Томск (3822)98-41-53
Тула (4872)74-02-29
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Уфа (347)229-48-12
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Ярославль (4852)69-52-93

OVERVIEW

Approved for Division 2 hazardous locations and corrosive atmospheres, the 117 Series can be used to measure vacuum, pressure, differential pressure or temperature in a variety of applications. Its compact, epoxy-coated enclosure and hermetically sealed snap switch provide superior corrosion resistance within the harshest environments. Popular sensors in a variety of materials are available, ranging from all welded stainless steel to elastomer diaphragms. Rugged, reliable and cost effective, the 117 Series is an ideal choice for the most demanding applications; typically wastewater treatment, pulp and paper mills, food and beverage plants, steel and aluminum mills and petrochemical and pharmaceutical plants.



FEATURES

- Approved for Division 2 hazardous locations
- Optional ATEX or GOST intrinsic safety compliance
- Hermetically sealed snap switch, SPDT or DPDT output
- Welded stainless steel diaphragms
- Optional sensor material for corrosive media
- Ultra-low pressure ranges
- Polished stainless steel flush mount sensors

SPECIFICATIONS

STORAGE TEMPERATURE	-65° to 160°F (-54 to 71°C)
AMBIENT TEMPERATURE LIMITS	-40° to 160°F (-40° to 71°C); except models 520-525, 540-548, 700-706: 0 to 160°F (-18 to 71°C); set point typically shifts less than 1% of range for a 50°F (28°C) ambient temperature change
SET POINT REPEATABILITY	Temperature models: ± 1% of adjustable range Pressure models 171-174, 218, 358-376, 520-535, 540-543, 560-564 and 700-706: ± 1% of adjustable range; models 183-194, 544-548, 483-494, 565-567: ± 1.5% of adjustable range Internal set point lock on all pressure models
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 (max. 0.6% copper), epoxy powder coated, gasketed; captive cover screws
ENCLOSURE CLASSIFICATION	Designed to meet Enclosure Type 4X requirements
SWITCH OUTPUT	One SPDT hermetically sealed snap action switch; switch may be wired "normally open" or "normally closed"; DPDT (option 1190/1195)
ELECTRICAL RATING	11 A 125/250 VAC resistive; 5 A @ 28 VDC; 1 A @ 48 VDC; 1/2 A @ 125 VDC; switch contacts gold flashed
WEIGHT	1.5-6.5 lbs. Varies with model
ELECTRICAL CONNECTION	1/2" NPT (female); two 7/8" diameter knockouts
PRESSURE CONNECTION	Models 218, 358-376, 700-706: 1/4" NPT (female); models 171-194, 483-494, 520-535: 1/2" NPT (female); models 560-564: 2" sanitary connection; models 565-567: 1.5" sanitary connection, models 540-548: 1/8" NPT (female)
TEMPERATURE ASSEMBLY	Bulb and capillary: 6 feet 304 stainless steel Immersion stem: nickel-plated brass (standard length only); optional 316L stainless steel
FILL	Non-toxic oil filled
TEMPERATURE DEADBAND	Typically 4% of range under laboratory conditions (70°F ambient circulating bath at rate of 1/2°F per minute change)
REFERENCE SCALE	Pressure: "Low-Medium-High" increment Temperature: Calibrated dial scale



117 Series

117 Series

PRESSURE MODEL CHART

Model	Adjustable Set Point Range		Deadband		*Over Range Pressure		**Proof Pressure	
	Low end of range on fall; High end of range on rise							
Type H117	"wc	mbar	"wc	mbar	psi	bar	psi	bar
Buna N diaphragm and O-ring with epoxy coated aluminum 1/2" NPT (female) pressure connection (Other wetted materials available - see page 9)								
520	300 Vac to 0	-746,7 to 0	0.8 to 32	2,0 to 79,6	200	13,8	400	27,6
521	10 Vac to 10	-24,9 to 24,9	0.4 to 2.4	1,0 to 6,0	200	13,8	400	27,6
522	50 Vac to 50	-124,5 to 124,5	0.4 to 12	1,0 to 29,9	200	13,8	400	27,6
523	0.5 to 5	1,2 to 12,4	0.4 to 1.2	1,0 to 3,0	200	13,8	400	27,6
524	2.5 to 50	6,2 to 124,5	0.4 to 3.2	1,0 to 8,0	200	13,8	400	27,6
525	10 to 250	24,9 to 622,3	0.4 to 24	1,0 to 59,7	200	13,8	400	27,6
Welded 316L stainless steel diaphragm and 1/2" NPT (female) pressure connection								
530	300 Vac to 0	-746,7 to 0	0.8 to 60	2,0 to 149,3	50	3,4	100	6,9
531	10 Vac to 10	-24,9 to 24,9	0.4 to 2.4	1,0 to 6,0	50	3,4	100	6,9
532	50 Vac to 50	-124,5 to 124,5	0.4 to 12	1,0 to 29,9	50	3,4	100	6,9
533	0.5 to 5	1,2 to 12,4	0.4 to 1.2	1,0 to 3,0	50	3,4	100	6,9
534	2.5 to 50	6,2 to 124,5	0.4 to 3.2	1,0 to 8,0	50	3,4	100	6,9
535	10 to 250	24,9 to 622,3	0.4 to 40	1,0 to 99,6	50	3,4	100	6,9

Model	Adjustable Set Point Range Low end of range on fall; High end of range on rise		Deadband		*Over Range Pressure		**Proof Pressure	
Type H117	psi	bar	psi	bar (unless noted)	psi	bar	psi	bar
2" sanitary welded 316L stainless steel diaphragm and pressure connection. Mates with Tri-Clamp® fitting systems (not UE supplied)								
560	1 to 15	0,1 to 1	0.3 to 3	20,7 mbar to 0,2	200	13,8	300	20,7
561	1 to 25	0,1 to 1,7	0.3 to 4.5	20,7 mbar to 0,3	200	13,8	300	20,7
562	2 to 50	0,1 to 3,4	0.3 to 7.5	20,7 mbar to 0,5	200	13,8	300	20,7
563	4 to 100	0,3 to 6,9	0.3 to 12	20,7 mbar to 0,8	200	13,8	300	20,7
564	8 to 200	0,6 to 13,8	0.3 to 15	20,7 mbar to 1	200	13,8	300	20,7
1.5" sanitary welded 316L stainless steel diaphragm and pressure connection. Mates with Tri-Clamp® fitting systems (not UE supplied)								
565	5 to 30	0,3 to 2,1	3 to 15	0,2 to 1,0	1000	68,9	1500	103,4
566	10 to 100	0,7 to 6,9	3 to 36	0,2 to 2,5	1000	68,9	1500	103,4
567	15 to 300	1,0 to 20,7	9 to 66	0,6 to 4,6	1000	68,9	1500	103,4
Welded 316L stainless steel diaphragm and 1/2" NPT (female) pressure connection, large 0.72" orifice for clean-out purposes								
171	1 to 20	0,1 to 1,4	0.1 to 3	6,9 mbar to 0,2	500	34,5	1000	68,9
172	2 to 50	0,1 to 3,4	0.1 to 5	6,9 mbar to 0,3	500	34,5	1000	68,9
173	4 to 100	0,3 to 6,9	0.1 to 10	6,9 mbar to 0,7	500	34,5	1000	68,9
174	8 to 200	0,6 to 13,8	0.1 to 15	6,9 mbar to 1,0	500	34,5	1000	68,9
316L stainless steel diaphragm (optional Hastelloy® C, Monel® or Tantalum); Viton® GLT O-ring (optional Kalrez®, Silicone, Ethylene Propylene, or Aflas®); 316 stainless steel 1/2" NPT (female) pressure connection (optional Hastelloy® B or C, or Monel®), large 0.72" orifice for clean-out purposes. Models 188 and 189 have a 316L stainless steel 1/2" NPT (female) pressure connection								
183	1 to 20	0,1 to 1,4	0.3 to 5	20,7 mbar to 0,3	500	34,5	1000	68,9
184	2 to 50	0,1 to 3,4	0.3 to 6	20,7 mbar to 0,4	500	34,5	1000	68,9
185	4 to 100	0,3 to 6,9	0.5 to 10	34,5 mbar to 0,7	500	34,5	1000	68,9
186	8 to 200	0,6 to 13,8	0.5 to 17	34,5 mbar to 1,2	500	34,5	1000	68,9
188	50 to 1000	3,4 to 68,9	30 to 300	2,1 to 20,7	2000	137,9	7000	482,6
189	250 to 3500	17,2 to 241,3	50 to 500	3,4 to 34,5	4000	275,8	7000	482,6
316L stainless steel diaphragm (optional Hastelloy® C, Monel® or Tantalum); Viton® GLT O-ring (optional Kalrez®, Silicone, Ethylene Propylene or Aflas®); 316 stainless steel 1/2" NPT (female) pressure connection (optional Hastelloy® B or C, or Monel®), 0.06" orifice to dampen pulsations. Models 488 and 489 have a 316L stainless steel 1/2" NPT (female) pressure connection								
483	1 to 20	0,1 to 1,4	0.3 to 5	20,7 mbar to 0,3	500	34,5	1000	68,9
484	2 to 50	0,1 to 3,4	0.3 to 6	20,7 mbar to 0,4	500	34,5	1000	68,9
485	4 to 100	0,3 to 6,9	0.5 to 10	34,5 mbar to 0,7	500	34,5	1000	68,9
486	8 to 200	0,6 to 13,8	0.5 to 17	34,5 mbar to 1,2	500	34,5	1000	68,9
488	50 to 1000	3,4 to 68,9	30 to 300	2,1 to 20,7	2000	137,9	7000	482,6
489	250 to 3500	17,2 to 241,3	50 to 500	3,4 to 34,5	4000	275,8	7000	482,6

PRESSURE MODEL CHART

Model	Adjustable Set Point Range Low end of range on fall; High end of range on rise		Deadband			*Over Range Pressure		**Proof Pressure	
Type H117	psi (unless noted)	bar	psi (unless noted)		bar (unless noted)	psi	bar	psi	bar
Phosphor bronze bellows with nickel-plated brass 1/4" NPT (female) pressure connection; 303 stainless steel spring exposed to media									
218	30 "Hg Vac to 0	-1 to 0	2 to 5 "Hg		67,7 to 169,3 mbar	0	0	30	2,1
Welded 316L stainless steel bellows and 1/4" NPT (female) pressure connection									
358	15 to 200	1,0 to 13,8	6 to 20		0,4 to 1,4	200	13,8	800	55,2
361	20 to 300	1,4 to 20,7	8 to 22		0,6 to 1,5	300	20,7	800	55,2
376	25 to 500	1,7 to 34,5	10 to 28		0,7 to 1,9	500	34,5	800	55,2
			Lower 75% range span	Top 25% range span	Lower 75% range span				
			psi (unless noted)	psi	bar				
Welded 316 stainless steel diaphragm and 1/2" NPT (female) pressure connection, large 0.72" orifice for clean-out purposes									
190	5 to 30	0,3 to 2,1	3 to 8	10 max	0,2 to 0,6	1500	103,4	2500	172,4
191	10 to 100	0,7 to 6,9	3 to 30	45 max	0,2 to 2,1	1500	103,4	2500	172,4
192	15 to 300	1,0 to 20,7	10 to 40	60 max	0,7 to 2,8	1500	103,4	2500	172,4
193	20 to 500	1,4 to 34,5	15 to 45	75 max	1,0 to 3,1	1500	103,4	2500	172,4
194	80 to 1700	5,5 to 117,2	5 to 120	200 max	0,3 to 8,3	2000	137,9	2500	172,4
Welded 316 stainless steel diaphragm and 1/2" NPT (female) pressure connection, 0.06" orifice to dampen pulsations									
490	5 to 30	0,3 to 2,1	3 to 8	10 max	0,2 to 0,6	1500	103,4	2500	172,4
491	10 to 100	0,7 to 6,9	3 to 30	45 max	0,2 to 2,1	1500	103,4	2500	172,4
492	15 to 300	1,0 to 20,7	10 to 40	60 max	0,7 to 2,8	1500	103,4	2500	172,4
493	20 to 500	1,4 to 34,5	15 to 45	75 max	1,0 to 3,1	1500	103,4	2500	172,4
494	80 to 1700	5,5 to 117,2	5 to 120	200 max	0,3 to 8,3	2000	137,9	2500	172,4

Model	Adjustable Set Point Range Low end of range on fall; High end of range on rise		Deadband		*Over Range Pressure		**Proof Pressure	
Type H117	psi	bar	psi	bar	psi	bar	psi	bar
Buna N diaphragm and O-ring with 303 stainless steel 1/4" NPT (female) pressure connection; option M540 Viton® diaphragm and O-ring available								
700	3 to 20	0,2 to 1,4	1,0 to 4	0,1 to 0,3	500	34,5	1000	68,9
702	3 to 100	0,2 to 6,9	2 to 12	0,1 to 0,8	500	34,5	1000	68,9
704	15 to 500	1,0 to 34,5	15 to 30	1,0 to 2,1	1500	103,4	2500	172,4
706	100 to 1700	6,9 to 117,2	20 to 110	1,4 to 7,6	2000	137,9	2500	172,4

DIFFERENTIAL PRESSURE MODEL CHART

Model	Adjustable Set Point Range Low end of range on fall; High end of range on rise		Deadband		***Working Pressure	**Proof Pressure		
Type H117K	psi (unless noted)	bar (unless noted)	psi (unless noted)	bar (unless noted)	psi (unless noted)	bar	psi	bar
Kapton® diaphragm, Buna N sealing diaphragms and epoxy coated aluminum 1/8" NPT (female) pressure connections								
540	0.8 to 7 "wcd	2,0 to 17,4 mbar	0.1 to 1.3 "wc	0,2 to 3,2 mbar	30 "Hg to 200	-1 to 13,8	400	27,6
541	2 to 20 "wcd	5,0 to 49,8 mbar	0.2 to 1.6 "wc	0.5 to 4,0 mbar	30 "Hg to 200	-1 to 13,8	400	27,6
542	5 to 50 "wcd	12,4 to 124,5 mbar	0.4 to 4.0 "wc	1,0 to 10,0 mbar	30 "Hg to 200	-1 to 13,8	400	27,6
543	10 to 200 "wcd	24,9 to 497,8 mbar	0.8 to 12 "wc	2,0 to 29,9 mbar	30 "Hg to 200	-1 to 13,8	400	27,6
544	2 to 20	0,1 to 1,4	0.2 to 2	13,8 mbar to 0,1	30 "Hg to 1200	-1 to 82,7	2500	172,4
545	5 to 50	0,3 to 3,4	0.4 to 3	27,6 mbar to 0,2	30 "Hg to 1200	-1 to 82,7	2500	172,4
546	10 to 125	0,7 to 8,6	0.7 to 7	48,3 mbar to 0,5	30 "Hg to 1200	-1 to 82,7	2500	172,4
547	50 to 250	3,4 to 17,2	1 to 15	0,1 to 1,0	30 "Hg to 1200	-1 to 82,7	2500	172,4
548	100 to 500	6,9 to 34,5	2 to 20	0,1 to 1,4	30 "Hg to 1200	-1 to 82,7	2500	172,4

TEMPERATURE MODEL CHART

Model	Adjustable Set Point Range		Max. Temp		Scale Division		†Stem/Bulb Size
Type B117	°F	°C	°F	°C	°F	°C	OD x Length
120	0 to 225	-17.8 to 107.2	275	135	10	5	9/16" x 1-7/8" below 1/2" NPT thread (nickel-plated brass)
121	200 to 425	93.3 to 218.3	475	246.1	10	5	9/16" x 1-7/8" below 1/2" NPT thread (nickel-plated brass)
Type E117							Bulb OD x length
2BSA	-120 to 100	-84.4 to 37.8	150	65.6	10	5	3/8 x 2-7/16"
5BS	-20 to 80	-28.9 to 26.7	130	54.4	5	2	3/8 x 5"
4BS	25 to 100	-3.9 to 37.8	150	65.6	2	1	3/8 x 6-3/4"
2BSB	30 to 250	-1.1 to 121.1	300	148.9	10	5	3/8 x 2-7/16"
3BS	100 to 400	37.8 to 204.4	450	232.2	10	5	3/8 x 2-1/8"
8BS	350 to 640	176.7 to 337.8	690	365.6	10	5	3/8 x 3-1/4"

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. *FOR MULTIPLE OPTIONS:* Call United Electric Controls.

TYPE	DESCRIPTION
Pressure	Type H117 - One SPDT output; epoxy coated enclosure; internal adjustment with "High-Low" reference scale
Differential Pressure	Type H117K - One SPDT output; epoxy coated enclosure; internal adjustment with "High-Low" reference scale
Temperature	Type B117 - Immersion stem; One SPDT output; epoxy coated enclosure; internal adjustment with calibrated dial scale, Type E117 - Bulb and capillary; One SPDT output; epoxy coated enclosure; internal adjustment with calibrated dial scale

SWITCH OPTIONS*

1190	Hermetically sealed, DPDT, 11 A 125/250 VAC, products set on rising pressure or temperature only. Due to inherent separation of circuits on falling pressure or temperature, specify Option 1195 if setting on fall is required. Deadband and minimum set point will increase. NOT AVAILABLE MODELS 523, 533
1195	Hermetically sealed, DPDT, 11 A 125/250 VAC; products set on falling pressure or temperature only. Due to inherent separation of circuits on rising pressure or temperature, specify Option 1190 if setting on rise is required. Deadband and minimum set point will increase. NOT AVAILABLE MODELS 523, 533

SENSOR AND OTHER OPTIONS

M201	Factory set one switch, specify increasing or decreasing pressure or temperature
M277	Range indicated on nameplate in kPa/MPa, factory selected. NOT AVAILABLE TEMPERATURE VERSIONS
M278	Range indicated on nameplate in Kg/cm ² . NOT AVAILABLE TEMPERATURE VERSIONS
M405	Intrinsic safety compliance for European Union per ATEX standards
M406	Intrinsic safety compliance for Russia per Gosgortekhnadzor standards
M407	CE compliance to Pressure Equipment Directive (category IV). NOT AVAILABLE ON MODELS 218, 520-524, 530-534 AND ALL TEMPERATURE MODELS
M444	Paper ID tag
M446	Stainless steel ID tag & wire attachment
M449	Mounting bracket kit. Required for models 520-535 when surface mounting. Use kit part number 6361-704 for other models
M504	316L stainless steel immersion stem. AVAILABLE TEMPERATURE MODELS 120, 121 ONLY
M540	Viton® construction (deadband and low end range may increase slightly); wetted parts include Viton® diaphragm and O-ring plus stainless steel pressure connection. AVAILABLE ON MODELS 700-704, AND 540-548 (sealing diaphragms only, main diaphragm remains Kapton®, pressure connections remain aluminum)
M550	Oxygen service cleaning; internal construction may change. NOT AVAILABLE PRESSURE MODEL 706 OR TEMPERATURE TYPE E117
SD6286-51	Watertight conduit fitting; converts 7/8" hole to 1/2" NPT (female) fitting
6361-704	Surface and Pipe Mounting Hardware (required for model 520-535, 540-548 when surface mounting)

OPTIONAL SENSOR MATERIAL FOR "WC RANGES. 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
XC006	316L Stainless steel pressure connection, Kapton® diaphragm, Viton® O-ring
XC007	316L Stainless steel pressure connection, Teflon® diaphragm, Viton® O-ring

OPTIONAL SENSOR MATERIALS FOR CORROSIVE MEDIA. AVAILABLE MODELS 183-189, 483-489

XD002	Hastelloy® C diaphragm
XD003	Monel® diaphragm
XD004	Tantalum diaphragm
XP111	Hastelloy® B pressure connection
XP112	Hastelloy® C pressure connection
XP113	Monel® pressure connection
XR211	Kalrez® O-ring
XR212	Silicone O-ring. NOT AVAILABLE MODELS 188-189, 488-489
XR213	Ethylene Propylene O-ring
XR214	Aflas® O-ring

OPTIONAL FLUSH MOUNT FLANGES. AVAILABLE MODELS 560-567

Other flanges (150# and 300#) available, please consult UE. Flanges conform to ANSI B16.5. Maximum pressure is limited by flange rating.

F196	Flush mounted flange, 150#, 1" lap joint, raised face. AVAILABLE MODELS 565-567 ONLY
F197	Flush mounted flange, 150#, 2" lap joint, raised face. AVAILABLE MODELS 560-564 ONLY
F198	Flush mounted flange, 300#, 1" lap joint, raised face. AVAILABLE MODELS 565-567 ONLY
F199	Flush mounted flange, 300#, 2" lap joint, raised face. AVAILABLE MODELS 560-564 ONLY

OPTIONS FOR TEMPERATURE MODELS

UNION CONNECTORS (Dimensional drawings may be found at www.ueonline.com)

Option	Replacement Number	Description
<u>Brass</u>		
W027	SD6213-27	1/2" NPT w/ 3/4" bushing
W045	SD6213-45	3/4" NPT
W051	SD6213-51	1/2" NPT
<u>304 Stainless Steel</u>		
W028	SD6213-28	1/2" NPT w/ 3/4" bushing
W046	SD6213-46	3/4" NPT
W050	SD6213-50	1/2" NPT

THERMOWELLS (Dimensional drawings may be found at www.ueonline.com)

For all bulb & capillary switches

<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
<u>316 Stainless Steel</u>		
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

For all immersion stem switches

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

OPTIONS FOR TEMPERATURE MODELS

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.

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:

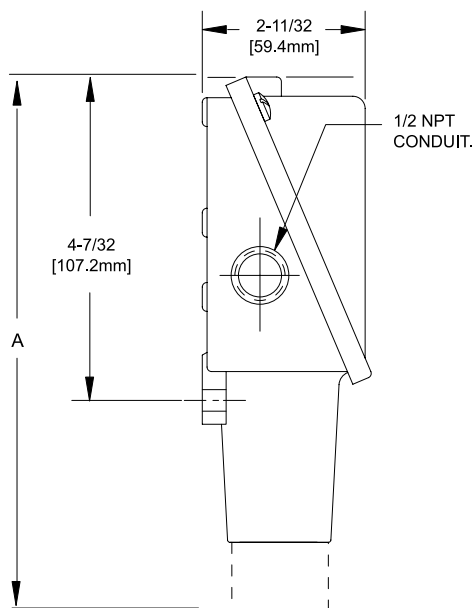
Optional immersion stem lengths to 15" available in brass, with or without 316 st/st thermowell. Consult UE for additional information.

Optional capillary length to *50' available in copper or 304 st/st. Armor or Teflon® capillary protection available to lengths less than or equal to capillary length. Consult UE for additional information.

DIMENSIONAL DRAWINGS

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

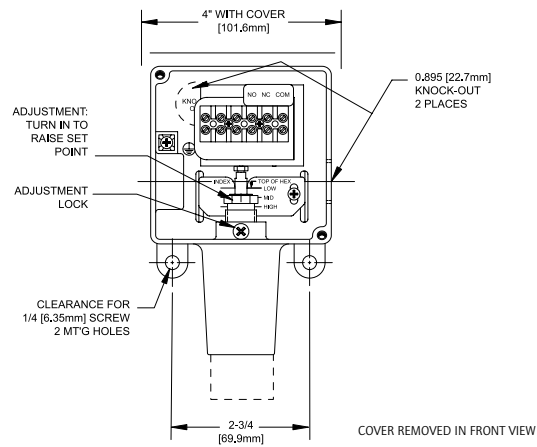
Types H117, H117K, B117, E117



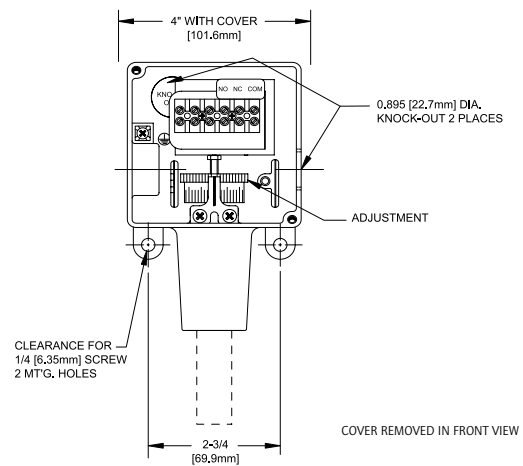
All dimensions stated in inches (millimeters)

Dimension A			
Models	Inches	mm	NPT
Pressure			
171-174	7.63	193.7	1/2
183-186	7.56	192.1	1/2
188, 189	6.63	168.4	1/2
190-194	6.63	168.4	1/2
218	6.56	166.7	1/4
358-376	7.00	177.8	1/4
483-486	7.56	192.1	1/2
488, 489	6.63	168.4	1/2
490-494	6.63	168.4	1/2
520-525	8.44	214.4	1/2
530-535	8.00	203.2	1/2
560-564	6.63	168.4	2" Sanitary Fitting
565-567	6.63	168.4	1-1/2" Sanitary Fitting
700-706	6.63	168.4	1/4
Differential Pressure			
540-543	8.47	215.0	1/8
544-548	8.53	216.6	1/8
Temperature			
120,121	9.38	238.1	Immersion Stem
2BSA-8BS	8.69	220.6	Bulb & Capillary

Types H117, H117K

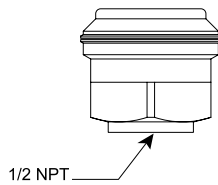


Types B117, E117

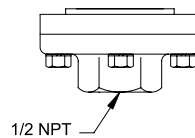


Pressure Sensors

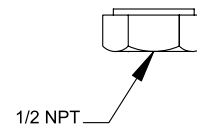
Models 171-174



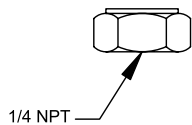
Models 183-186, 483-486



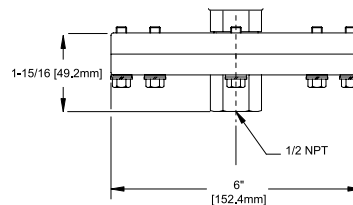
Models 188-194, 488-494



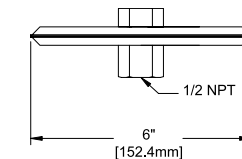
Models 218-376, 700-706



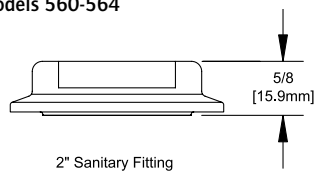
Models 520-525



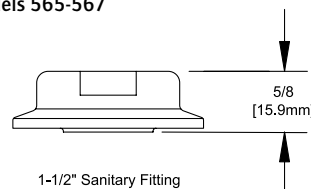
Models 530-535



Models 560-564

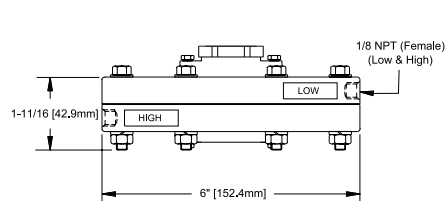


Models 565-567

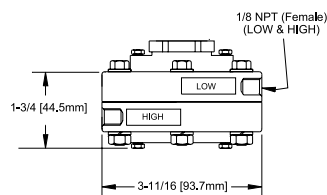


Differential Pressure Sensors

Models 540-543

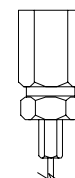


Models 544-548

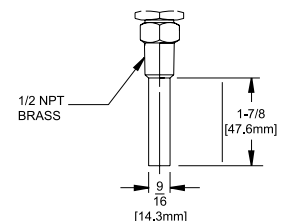


Temperature Sensors

Model 2BSA-88S



Model 120-121



По вопросам продаж и поддержки обращайтесь:

Архангельск (8182)63-90-72
Астана +7(7172)727-132
Белгород (4722)40-23-64
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89
Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Казань (843)206-01-48

Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Липецк (4742)52-20-81
Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41

Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
Новосибирск (383)227-86-73
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Пермь (342)205-81-47
Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78

Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Тверь (4822)63-31-35
Томск (3822)98-41-53
Тула (4872)74-02-29
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Уфа (347)229-48-12
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Ярославль (4852)69-52-93