

J400K- S147B, J400K- S157B, J400K- 147, J400K-157,
J402K- 455, J402K-456, J402K-457, H400K- 540,
H400K- 541, H400K- 542, H402K- 559, H402K- 455,
H402K- 456 и др.

Атмосферостойкие воздействиям реле перепада давления с несколькими выходами серии 400. Технические характеристики.



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OVERVIEW

The 400 Series is a versatile family of pressure, differential pressure and temperature switches for applications which require single 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.

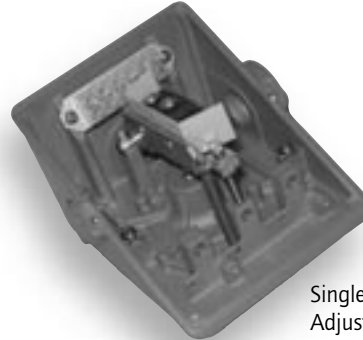
Widely used throughout the process industries, the 400 Series provides threshold protection and control for many critical functions. Typical installations are found in industrial gas production, energy generation including pumps, turbines and compressors, pulp and paper, and water and wastewater treatment.

FEATURES

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



Differential Pressure Model with M210 Option - Dial Indication



Single Switch Output, Hex Screw Adjustment Model with M100 option - Terminal Block Wiring



Temperature Model with Remote Bulb & Capillary and M321 option - Gasketed Lexan Window

Dual Switch, Low Water Column Differential Pressure Model



SPECIFICATIONS

STORAGE TEMPERATURE	-65 to 160°F (-54 to 71°C)
AMBIENT TEMPERATURE LIMITS	-40 to 160°F (-40 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: ± 2% of adjustable range Pressure: models 126-376, 520-535, 540-547, 570-572, S126B-S164B: ± 2% of adjustable range; models 440-457, 550-559: ± 1% of adjustable range; models 610-614: ± 3% of adjustable 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 CLASSIFICATION	Designed to meet enclosure type 4X requirements
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. Consult factory for additional information.
WEIGHT	Approx. 3 to 7.5 lbs.; varies with model
ELECTRICAL CONNECTION	One 3/4" NPT and two 7/8" diameter knockouts
PRESSURE CONNECTION	All models 1/4" NPT (female) except models S126B-S164B, 520-535: 1/2" NPT (female); models 540-547: 1/8" NPT (female)
TEMPERATURE ASSEMBLY	'E' types use the same assemblies as 'F' types, however, range spans are limited due to use of reference dials Bulb and capillary: 6 feet 304 stainless steel Immersion stem: models 120 & 121: nickel-plated brass; optional 316L stainless steel available
FILL	Temperature Models: Model 1BS: solvent filled; models 2-8: non-toxic oil filled
TEMPERATURE DEADBAND	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 PRESSURE INDICATOR (OPTION M210)	Differential pressure indication available J400K, J402K models 147-S157B; accuracy approximately 1-1/2% mid 50% of range, 3% at ends; window is plexiglass and gasketed; indicator may be field adjusted for approximately ±1% accuracy at any set point within range



PRESSURE MODEL CHART

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 Range		Deadband		Proof Pressure**		Scale Division
	Low end of range on fall; High end of range on rise		Deadband doubles for 2 and 3 switch types		psi	bar	psi (unless noted)
	psi (unless noted)	bar (unless noted)	psi (unless noted)	bar (unless noted)			
Teflon® diaphragm, O-Ring with 316L stainless steel 1/4" NPT (female) pressure connection and cap							
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
551†	0 to 80 "wc	0 to 199,1 mbar	1.5 to 3.5 "wc	3,7 to 8,7 mbar	225	15,5	5 "wc
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
453††	0 to 20	0 to 1,4	0.05 to 0.3	3,4 to 20,7 mbar	225	15,5	1
454††	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

†† 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	Adjustable Set Point Range		Deadband		Working Pressure***		Proof Pressure**	
	Low end of range on fall; High end of range on rise		Deadband doubles for 2 and 3 switch types					
	psid (unless noted)	bar (unless noted)	psi (unless noted)	mbar	psi	bar	psi	bar
Welded 316L stainless steel bellows and 1/2" NPT (female) pressure connections								
S147B	3 to 30	0,2 to 2,1	0.5 to 2	34,5 to 137,9	30 "Hg Vac to 100	-1 to 6,9	300	20,7
S157B	10 to 100	0,7 to 6,9	0.5 to 3	34,5 to 206,8	30 "Hg Vac to 180	-1 to 12,4	300	20,7
Brass bellows with nickel-plated brass 1/4" NPT (female) pressure connections								
147	3 to 30	0,2 to 2,1	0.5 to 2	34,5 to 137,9	30 "Hg Vac to 100	-1 to 6,9	180	12,4
157	10 to 100	0,7 to 6,9	0.5 to 3	34,5 to 206,8	30 "Hg Vac to 150	-1 to 10,3	180	12,4
Buna-N diaphragm and O-Ring with aluminum 1/4" NPT (female) pressure connections								
455	5 to 80 "wcd	12,4 to 199,1 mbar	1 to 4 "wc	2,5 to 10	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	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	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 provided the difference in pressure between them does not exceed the designated adjustable range.

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 Point Range		Deadband		Working Pressure***		Proof Pressure**	
	Low end of range on fall; High end of range on rise		Deadband doubles for 2 and 3 switch types					
	psid (unless noted)	bar (unless noted)	psi (unless noted)	bar (unless noted)	psi	bar	psi	bar
Kapton® diaphragm, Buna-N sealing diaphragms with aluminum 1/8" NPT (female) pressure connections (J402K only)								
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 diaphragms, Buna-N O-Ring with aluminum 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 H400K, single switch output with internal adjustment via reference dial

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

Buna-N diaphragm and O-Ring with 1/4" NPT (female) aluminum pressure connections								
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 diaphragms, Buna-N O-Ring with aluminum pressure connections								
559	10 to 100	0,7 to 6,9	0.2 to 1	13,8 to 68,9 mbar	30 "HgVac 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 provided the difference in pressure between them does not exceed the designated adjustable range.

Kapton® and Teflon® are registered trademarks of E.I. DuPont.

† Model not available on type J400K

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