

Technical Datasheet



Sentry Series

Pressure Switch

Models: P01, P02 & P03

Key Features

- SPDT & DPDT switch outputs
- Aluminium Epoxy Coated or AISI 300 SS enclosure IP66/NEMA4X
- Weatherproof, flameproof & intrinsically safe execution
- 316 Stainless steel wetted parts as standard
- Field adjustable set-points against a reference scale
- Pressure ranges up to 700bar (10,000psi)
- Maximum working pressure up to 1000bar (15,000psi)
- Safety vented design as standard
- Suitable for use SIL 2 safety related systems
- Market leading 5 year warranty

Series Overview

The Sentry Series offers exceptional performance and high build quality in a simple, safe and cost-effective package.

- Performance is assured by repackaging Delta Mobrey's well proven sensor technologies in a new, simple, one-piece enclosure
- Safety is maintained by a vent that prevents the enclosure becoming pressurised in the event of a sensor being damaged
- Cost is minimised through the selection of common standard options although, as with all Delta Mobrey products, a variety of optional extras are available to tailor the product to specific needs.

Other products in the series include:

- Differential Pressure Switches: Model D0
- Temperature Switches: Model T0



Product applications

The Sentry Series is suitable for a wide range of applications in:

- Process plants
- OEM equipment

The choice of models available ensures that the Sentry Series is

suitable for use in:

- General purpose
- Zone 0 & 20 Hazardous Areas
- Zone 1 & 21 Hazardous Areas
- SIL 2 safety related systems
- Corrosive atmospheres

How can we help you?

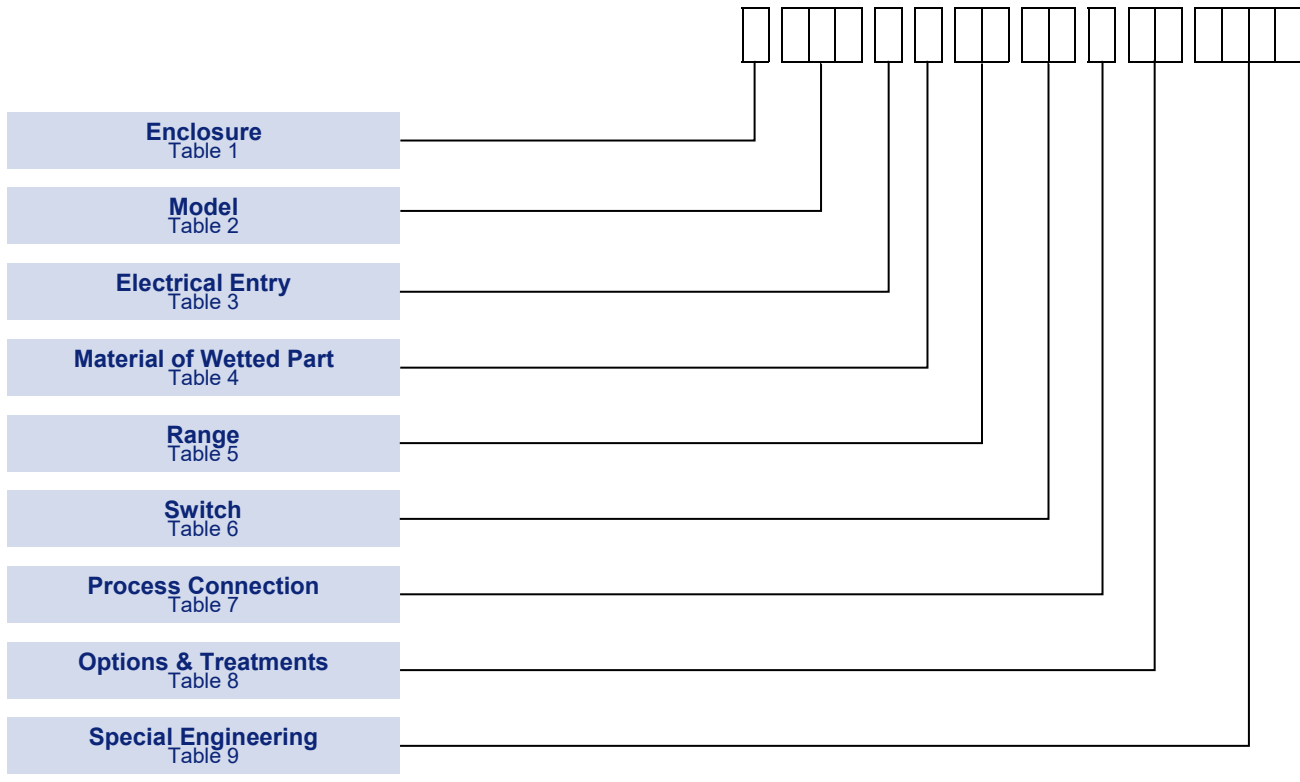
Delta Mobrey offers fast, efficient and knowledgeable support when and where you need it. Please visit our website at www.delta-mobrey.com to find your local support centre or call us on:

+44 (0)1252 729140

Sentry Series
Models: P01, P02 & P03

How to order

Switches can be configured by selecting codes representing the desired features from the tables that follow. The chart below, describes how the model code is built up. For assistance in configuring a switch that best suits your needs, please contact your local sales office.



Technical Specification

Set point repeatability:	1% of span
Storage Temperature:	-40 to +80°C (-40 to +176°F)
Ambient Temperature:	-30 to +80°C (-22 to +176°F); SPECIAL ENGINEERING -60 to +80°C (-76 to 176 °F)
Maximum Process Temperature:	at the process connection, the component parts withstand up to +80°C (+176°F). <i>For higher media temperatures, refer to Operating Instruction for installation practice or contact your local sales office.</i>
Enclosure classification:	Weatherproof / Flameproof / Intrinsically Safe.
Ingress protection:	IP 66 / NEMA 4X
Pollution degree:	pollution degree 3 according EN60947-5-1 (For extreme conditions where condensation may readily form, then sealed contacts should be used)
Switch output:	1 x SPDT or 1 x DPDT (2 SPDT Synchronized with 2% of range) snap action microswitch (standard)
Electrical rating:	See Table 6
Terminal Block:	suitable for wire section up to 2,5 mm ² / 14 AWG
Grounding connection:	one internal and one external suitable for wire section up to 4 mm ² / 12 AWG
Electrical Safety Class:	safety electrical class 1 according IEC 61298-2:2008
Process Connection:	¼ -14 NPT F (Standard) Others (optional) via adapter
Approximate Weight:	1.7kg / 3.7lb to 2.3kg / 5lb depending on model

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Enclosure

⁽¹⁾ Triple marking IECEx, ATEX and UKEx on the same product nameplate; EAC Ex on request

⁽²⁾ Safety Parameters
 Ui: 30 V; Ii: 100 mA; Pi: 0.6 W; Ci: 0; Li: 0.

TABLE 1	
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ENCLOSURE TYPES:	Code
<u>WEATHERPROOF ENCLOSURE</u>	
General Purpose Die-cast in aluminium, epoxy painted, with ingress protection IP66, NEMA type 4X	W
Aggressive Atmospheres Investment cast enclosure in austenitic stainless steel, with ingress protection IP66, NEMA type 4X	A
<u>FLAMEPROOF ENCLOSURE ⁽¹⁾</u>	
Approved for use in a Zone 1 & Zone 21 hazardous locations Ex db IIC T5/T6 Gb, Ex tb IIIC T100/T85°C Db IP66 The temperature class is related to the ambient temperature range. See Approvals for more information	
General Purpose Die-cast in aluminium, epoxy painted, with ingress protection IP66, NEMA type 4X	H
Aggressive Atmospheres Investment cast enclosure in austenitic stainless steel with ingress protection IP66, NEMA type 4X	R
<u>INTRINSIC SAFETY ⁽¹⁾⁽²⁾</u>	
Approved for use in a Zone 0 & Zone 20 hazardous locations Ex ia IIC T5/T6 Ga, Ex ia IIIC T100/T85°C Db IP66 The temperature class is related to the ambient temperature range. See Approvals for more information	
General Purpose Die-cast in aluminium, epoxy painted, with ingress protection IP66, NEMA type 4X	5
Aggressive Atmospheres Investment cast enclosure in austenitic stainless steel, with ingress protection IP66, NEMA type 4X	4

Models

P01
 For applications up to 1.5 bar (22 psi), maximum working pressure 15 bar (220 psi).

P02
 For applications up to 100 bar (1500 psi), maximum working pressure 155 bar (2250 psi).

P03
 For applications up to 700 bar (10,000 psi), maximum working pressure 1000 bar (15,000 psi).

TABLE 2	
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		Code
Pressure	Diaphragm Operated Low Overload Pressure	P01
Pressure	Diaphragm Operated Standard Pressure	P02
Pressure	Diaphragm Operated High Overload Pressure	P03

Electrical Entry

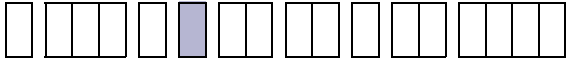
TABLE 3	
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Description	Code (Single Entry)	Code (Dual Entry)
M20 x 1.5-F	0	5
½ - 14 NPT-F	2	4

Sentry Series
 Models: P01, P02 & P03

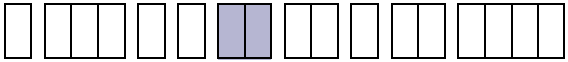
Material of Wetted Parts

For reduced risk against leakage under extreme or unusual conditions the diaphragm may be welded directly to the process connection, eliminating the O-ring (Code S).

TABLE 4 

	Code
316 Stainless steel diaphragm and process connection Viton O-ring seal.	A
316 Stainless steel diaphragm and process connection Nitrile O-ring seal.	G
316 Stainless steel diaphragm and process connection Welded construction	S
Nickel alloy (Monel) diaphragm, 316 stainless steel process connection and Viton O-ring seal. NACE MR 01-75 compliant	K

Setting Ranges

TABLE 5 

P_{max}		Model	Range				
Bar	Psi		mbar/(bar)	Code	Psi	in H2O	Code
15	217	P01	12 to 250	CC		5 to 100	CW
			-120 to +120	CD		-50 to 50	CH
			100 to 600	CE	1.5 to 8.5		CK
			-1000 to 0	A0		(-30 to 0)	AB
			(-1 to +1.5)	G3	-14.5 to 20		GK

P_{max}		Model	Range			
bar	psi		bar	code	psi	Code
27	400	P02	0.25 to 1.6	DB	4 to 25	DK
			0.4 to 2.5	DC	6 to 40	DP
			1 to 6	DE	16 to 100	DZ
70	1000	P02	1.6 to 10	EA	25 to 160	EH
			2.5 to 16	EB	40 to 250	EM
110	1600	P02	4 to 25	EC	60 to 400	ER
			10 to 40	ED	160 to 600	EW
			16 to 75	EF	250 to 1000	EE
155	2250	P02	10 to 100	FA	160 to 1500	F6

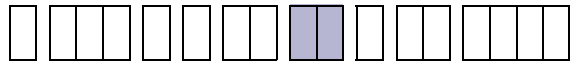
Sentry Series
 Models: P01, P02 & P03

P_{max}		Model	Range			
Bar	psi		Bar	Code	Psi	Code
350	5075	P03	0.4 to 2.5	DC	6 to 40	DP
			1 to 6	DE	16 to 100	DZ
		P03	1.6 to 10	EA	25 to 160	EH
			2.5 to 16	EB	40 to 250	EM
			P03	4 to 25	EC	60 to 400
		10 to 40		ED	160 to 600	EW
		16 to 75	EF	250 to 1000	EE	
1000	15000	P03	10 to 100	FA	160 to 1500	F6
		P03	7 to 160	U7	100 to 2300	UK
			25 to 250	V7	350 to 3500	VC
			50 to 400	W7	800 to 6000	W9
			100 to 700	Y4	1600 to 10000	YF

* Deadband figures are typical for Code 10 SPDT 15A microswitches (see Table 6) and non-welded wetted parts Codes A & G (see Table 4) with falling set-points at mid-scale. Deadbands for other microswitch options may differ. Due to manufacturing tolerances the figures quoted are for guidance only. Should the differential be critical for specific applications, our engineers should be consulted before ordering.

Switch Options

TABLE 6



CSA Rating (RESISTIVE) §SEE NOTE	IEC 947-5-1/EN 60947-5-1 RATING							Contact	Code
	Designation & Utilization Category	Rated operational current I _e (A) at rated operational voltage U _e	U _i	U _{imp}	VA Rating				
						Make	Break		
5 A, 110/250V AC Light Duty for AC only	AC14 D300 DC13 R300	0.6/0.3A, 120/240V AC 0.22/0.1A, 125/250V DC	250V	0.8kV	AC DC	432 28	72 28	SPDT	00
								DPDT	01
1 A, 125V AC & §100 mA, 30V DC gold alloy contacts for low voltage switching	1 A, 125 VAC RESISTIVE (IEC 1058-1/EN 61058-1)							SPDT	04
								DPDT	05
15 A, 125/250/480 V AC 2 A, 30V DC General purpose precision	AC14 D300 DC13 R300	0.6/0.3A, 120/240V AC 0.22/0.1A, 125/250V DC	250V	0.8kV	AC DC	432 28	72 28	SPDT	10
								DPDT	11
5 A, 110/250V AC Adjustable for AC only	AC14 D300	0.6/0.3A, 120/240V AC	250V	0.8kV	AC	432	72	SPDT	1C
5 A, 110/250V AC & 2 A, 30V DC Adjustable	AC14 D300 DC13 R300	0.6/0.3A, 120/240V AC 0.22/0.1A, 125/250V DC	250V	0.8kV	AC DC	432 28	72 78	SPDT	1D
5 A, 250V AC and 2 A, 30V DC Hermetically sealed. Gold plated silver contacts.	AC14 D300	0.6/0.3A, 120/240V AC	250V	0.5kV	AC	432	72	SPDT	H2 [†]
	DC13 R300	0.22/0.1A, 125/250V DC			DC	28	28	DPDT	H3 [†] [^] H6 [‡] [^]

† 2 Single pole, double throw, simultaneous falling under pressure

‡ 2 Single pole, double throw, simultaneous rising under pressure

[^]Terminal Block supplied as standard

Note §: For Low energy circuits e.g 30V and up to 100mA, we recommend using gold alloy contact switches

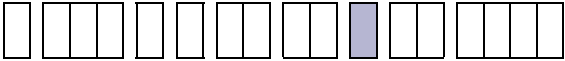
U_i = rated insulation voltage; *U_{imp}* = rated impulse to withstand voltage across contacts.

In the absence of any verification by CSA the microswitch § manufacturer's rating is stated in **italics and bold**.

If in doubt seek guidance from the factory.

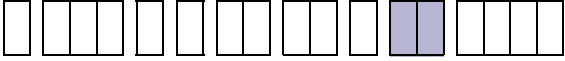
Process Connection

NOTE: Flanged process connection ANSI/EN are possible. Instrument will be supplied with 1/2"NPTM process connection and flange supplied loose in a separate order line, ..

TABLE 7 

	Code
¼ - 18 NPT F: Direct	F
½ -14 NPT M: Direct	J
For diaphragm seal suitable to be assembled with instrument with adjustable range up to 1.5 bar	1
For diaphragm seal suitable to be assembled with instrument with adjustable range over to 1.5 bar	2

Options & Treatments

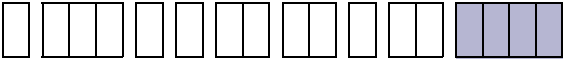
TABLE 8 

	Code
Applies when – no option is required and selection is made from special engineering (see Table 9)	00
Stainless steel permanently fixed tags	20
Stainless steel wired on tag	30

Special Engineering

Sentry Series
Models: P01, P02 & P03

Last 4 digits of model code only used when special engineering is required.

TABLE 9 

	Code
Please consult Delta sales engineering for special requirements	TBA
Low ambient temperature version (from –60°C to +80°C) for P01 and P02	0AEF

Performance Data

TABLE 10

* Deadband figures are typical for Code 10 SPDT 15A microswitches (see Table 6) and non-welded wetted parts Codes A & G (see Table 4) with falling set-points at mid-scale. Deadbands for other microswitch options may differ. Due to manufacturing tolerances the figures quoted are for guidance only. Should the differential be critical for specific applications, our engineers should be consulted before ordering.

TABLES 10A, 10B, 10C, 10D.
MODEL P01, P02, P03
DIAPHRAGM OPERATED PRESSURE SWITCH

MODEL P01/HP02 PSI UNITS TABLE 10A

Range		P _{max} psi	SWITCHING OPTIONS SWITCHING DIFFERENTIAL IN H ₂ O / IN Hg / psi									
Code	H ₂ O / IN Hg / psi		00	01	10	11	04	05	08/0G	09/0H	H2	H3/H6
CW	5 to 100	217	3.2	4.0	3.5	3.6	3.2	3.2	3.2	6.0	3.6	14.0
CH	-50 to 150	217	3.2	5.6	3.1	9.2	3.2	3.6	5.6	7.2	8.0	14.0
CK	1.5 to 8.5	217	0.2	0.2	0.2	0.3	0.2	0.2	5.6	7.2	0.7	0.7
AB	(-30 to 0)	217	1.2	0.8	1.3	1.8	0.5	0.5	0.9	1.1	3.7	3.1
GK	-14.5 to 20	217	0.7	0.6	0.7	1.5	0.7	0.5	0.5	0.7	2.2	2.2
DK	4 to 25	400	0.7	0.7	2.0	3.0	1.2	1.5	2.6	3.5	1.5	3.0
DP	6 to 40	400	0.7	1.0	2.6	2.2	1.5	1.5	2.6	3.5	2.2	5.0
DZ	16 to 100	400	2.2	1.5	3.3	3.6	1.5	2.2	3.5	1.6	4.5	5.8
EH	25 to 160	1000	2.2	2.2	4.9	6.5	3.0	3.6	11.6	14.5	7.5	11.6
EM	40 to 250	1000	2.2	4.0	5.0	10.0	3.6	6.0	13.1	17.4	7.5	14.5
ER	60 to 400	1600	4.4	6.5	15.2	12.0	7.3	10.0	26.0	35.0	29.0	58.0
EW	160 to 600	1600	7.3	12.0	20.3	26.0	12.0	17.0	44.0	46.0	36.0	61.0
EE	250 to 1000	1600	9.4	16.3	25.4	36.0	15.0	25.0	44.0	58.0	73.0	105
F6	160 to 1500	2250	16.0	16.3	53.7	65.0	29.0	44.0	87.0	116	73.0	145

MODEL P01/P02 BAR UNITS TABLE 10B

Range		P _{max} bar	SWITCHING OPTIONS SWITCHING DIFFERENTIAL IN mbar									
Code	mbar / (bar)		00	01	10	11	04	05	08/0G	09/0H	H2	H3/H6
CC	12 to 250	15	8	10	9	8	8	8	8	15	9	35
CD	-120 to +120	15	8	14	8	23	8	9	14	18	20	35
CE	100 to 600	15	10	14	15	23	10	12	14	18	45	45
A0	-1000 to 0	15	40	27	45	60	18	18	30	36	125	105
G3	(-1 to +1.5)	15	45	40	48	100	50	30	36	45	150	150
DB	(0.25 to 1.6)	27	45	45	140	200	80	100	180	240	100	200
DC	(0.4 to 2.5)	27	48	68	180	150	100	100	180	240	150	350
DE	(1 to 6)	27	150	100	230	250	100	150	240	320	300	400
EA	(1.6 to 10)	70	150	150	340	450	200	250	800	1000	500	800
EB	(2.5 to 16)	70	200	275	350	680	250	400	900	1200	500	1000
EC	(4 to 25)	110	300	450	1050	800	500	700	1800	2400	2000	4000
ED	(10 to 40)	110	500	800	1400	1800	800	1200	3000	3200	2500	4200
EF	(16 to 75)	110	650	1125	1750	2500	1000	1750	3000	4000	5000	7250
FA	(10 to 100)	155	1100	1125	3700	4500	2000	3000	6000	8000	5000	10000

MODEL P03 PSI UNITS TABLE 10C

Range		P _{max} psi	SWITCHING OPTIONS SWITCHING DIFFERENTIAL IN psi									
Code	psi		00	01	10	11	04	05	08/0G	09/0H	H2	H3/H6
DP	6 to 40	5075	3.2	4.8	5.8	5.8	4.4	4.4	6.5	7.4	5.8	11.6
DZ	16 to 100	5075	3.5	5.8	8.7	11.6	7.3	10.2	8.7	9.4	11.6	23.2
EH	25 to 160	5075	5.5	10.2	11.6	17.4	8.7	13.1	8.7	11.0	17.4	34.8
EM	40 to 250	5075	7.0	11.5	11.6	17.4	8.7	13.1	11.6	17.4	17.4	34.8
ER	60 to 400	5075	12.5	20.3	17.4	23.2	11.6	17.4	20.0	22.0	33.4	66.7
EW	160 to 600	5075	21.8	23.2	31.9	43.5	29.0	36.3	29.0	44.0	50.8	101.5
EE	250 to 1000	5075	21.8	27.6	36.3	72.5	72.5	58.0	44.0	58.0	58.0	116.0
F6	160 to 1500	5075	29.0	36.3	65.3	87.0	58.0	72.5	58.0	73.0	72.5	145.0
UK	100 to 2300	15000	49.3	80.0	98.6	145.0	65.3	77.0	73.0	90.0	145.0	290.0
VC	350 to 3500	15000	81.2	162.4	145.0	243.7	123.3	203.1	725	870	507.6	725.2
W9	800 to 6000	15000	127.6	255.3	255.3	374.3	191.4	319.1	1160	1160	580.2	1160.3
YF	1600 to 10000	15000	217.6	435.1	290.0	652.7	326.3	485.9	1450	1450	725.2	1450.4

MODEL P03 BAR UNITS TABLE 10D

Range		P _{max} bar	SWITCHING OPTIONS SWITCHING DIFFERENTIAL IN mbar									
Code	bar		00	01	10	11	04	05	08/0G	09/0H	H2	H3/H6
DC	0.4 to 2.5	350	220	330	400	400	300	300	450	510	400	800
DE	1 to 6	350	240	400	600	800	500	700	600	650	800	1600
EA	1.6 to 10	350	380	700	800	1200	600	900	600	750	1200	2400
EB	2.5 to 16	350	480	790	800	1200	600	900	800	1200	1200	2400
EC	4 to 25	350	860	1400	1200	1600	800	1200	1350	1500	2300	4600
ED	10 to 40	350	1500	1600	2200	3000	2000	2500	2000	3000	3500	7000
EF	16 to 75	350	1500	1900	2500	5000	5000	4000	3000	4000	4000	8000
FA	10 to 100	350	2000	2500	4500	6000	4000	5000	4000	5000	5000	10000
U7	7 to 160	1000	3400	5500	6800	10000	4500	5300	5000	6200	10000	20000
V7	25 to 250	1000	5600	11200	10000	16800	8500	14000	50000	60000	35000	50000
W7	50 to 400	1000	8800	17600	17600	39600	13200	22000	80000	80000	40000	80000
Y4	100 to 700	1000	15000	30000	20000	45000	22500	33500	100000	100000	50000	100000

TABLE 10E, 10F. MODEL P02. DIAPHRAGM OPERATED STANDARD PRESSURE SWITCH

MODEL P02 PSI UNITS TABLE 10E

Range		P _{max} psi	SWITCHING OPTIONS SWITCHING DIFFERENTIAL IN psi					
Code	psi		MIN	1C	MAX	MIN	1D	MAX
DK	4 to 25	400	0.2	1.2	1.0	2.9		
DP	6 to 40	400	0.4	1.3	1.3	3.0		
DZ	16 to 100	400	0.5	2.8	2.5	7.3		
EH	25 to 160	1000	1.9	6.2	6.4	16		
EM	40 to 250	1000	3.2	9.1	9.6	23.2		
ER	60 to 400	1600	9.6	34.8	40.6	88.5		
EW	160 to 600	1600	12.8	47.9	58	124.7		
EE	250 to 1000	1600	16	62.4	79.8	159.5		
F6	160 to 1500	2250	24.7	82.7	95.7	211.8		

MODEL P02 BAR UNITS TABLE 10F

Range		P _{max} bar	SWITCHING OPTIONS SWITCHING DIFFERENTIAL IN mbar					
Code	bar		MIN	1C	MAX	MIN	1D	MAX
DB	0.25 to 1.6	27	15	80	70	200		
DC	0.4 to 2.5	27	25	88	90	210		
DE	1 to 6	27	35	190	170	500		
EA	1.6 to 10	70	132	430	440	1100		
EB	2.5 to 16	70	220	630	660	1600		
EC	4 to 25	110	660	2400	2800	6100		
ED	10 to 40	110	880	3300	4000	8600		
EF	15 to 75	110	1100	4300	5500	11000		
FA	10 to 100	155	1700	5700	6600	14600		

Sentry Series
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Approvals



GLOBAL CERTIFICATION

IECEX

INTRINSICALLY SAFE Certificate No. IECEX BAS 11.0104X

- Ex ia IIC T6 Ga (-30°C≤Ta≤+65°C) or (-60°C≤Ta≤+65°C)
- Ex ia IIC T5 Ga (-30°C≤Ta≤+80°C) or (-60°C≤Ta≤+80°C)
- Ex ia IIIC T85°C Da (-30°C≤Ta≤+65°C) or (-60°C≤Ta≤+65°C)
- Ex ia IIIC T100°C Da (-30°C≤Ta≤+80°C) or (-60°C≤Ta≤+80°C)

FLAMEPROOF Certificate No. IECEX BAS 12.0081

- Ex d IIC T6 Gb (-30°C≤Ta≤+65°C) or (-60°C≤Ta≤+65°C)
- Ex d IIC T5 Gb (-30°C≤Ta≤+80°C) or (-60°C≤Ta≤+80°C)
- Ex tb IIIC T85°C Db IP66 (-30°C≤Ta≤+65°C) or (-60°C≤Ta≤+65°C)
- Ex tb IIIC T100°C Db IP66 (-30°C≤Ta≤+80°C) or (-60°C≤Ta≤+80°C)



Functional Safety Certified

Meets the requirements of IEC 61508-2:2010 for use in safety related systems.

Systematic capability: SC 2;

Random Capability: Type A element

SIL2 @ HFT 0; Route 1_H and 1_S

Certificate No. Sira FSP 12015/05



EUROPEAN DIRECTIVE

Low Voltage Directive (LVD) 2014/35/EU

Compliant to LVD

Restriction of hazardous substances (RoHS 2) 2011/65/EU

Compliant to RoHS

Pressure Equipment Directive (PED) 2014/68/EU

Compliant to PED as pressure accessory

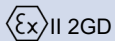
ATEX Directive 2014/34/EU

INTRINSICALLY SAFE Certificate No. Baseefa11ATEX0203X

- Ex ia IIC T6 Ga (-30°C≤Ta≤+65°C) or (-60°C≤Ta≤+65°C)
- Ex ia IIC T5 Ga (-30°C≤Ta≤+80°C) or (-60°C≤Ta≤+80°C)
- Ex ia IIIC T85°C Da (-30°C≤Ta≤+65°C) or (-60°C≤Ta≤+65°C)
- Ex ia IIIC T100°C Da (-30°C≤Ta≤+80°C) or (-60°C≤Ta≤+80°C)

FLAMEPROOF Certificate No. Baseefa12ATEX0121

- Ex d IIC T6 Gb (-30°C≤Ta≤+65°C) or (-60°C≤Ta≤+65°C)
- Ex d IIC T5 Gb (-30°C≤Ta≤+80°C) or (-60°C≤Ta≤+80°C)
- Ex tb IIIC T85°C Db IP66 (-30°C≤Ta≤+65°C) or (-60°C≤Ta≤+65°C)
- Ex tb IIIC T100°C Db IP66 (-30°C≤Ta≤+80°C) or (-60°C≤Ta≤+80°C)



Approvals



UK REGULATION

Electrical Equipment (Safety) Regulations 2016

Conform to UK SI 2016 No 1101 regulation

Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012

Conform to UK SI 2012 No. 3032

Pressure Equipment (Safety) Regulations 2016

Conform to UK SI 2016 No 1105 regulation

Equipment and Protective Systems Intended for use in Potentially Explosive Atmospheres Regulations 2016

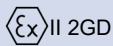
Conform to UK SI 2016 No 1107 regulation

INTRINSICALLY SAFE Certificate No. BAS22UKEX0174X

- Ex ia IIC T6 Ga (-30°C≤Ta≤+65°C) or (-60°C≤Ta≤+65°C)
- Ex ia IIC T5 Ga (-30°C≤Ta≤+80°C) or (-60°C≤Ta≤+80°C)
- Ex ia IIIC T85°C Da (-30°C≤Ta≤+65°C) or (-60°C≤Ta≤+65°C)
- Ex ia IIIC T100°C Da (-30°C≤Ta≤+80°C) or (-60°C≤Ta≤+80°C)

FLAMEPROOF Certificate No. BAS22UKEX0060X

- Ex d IIC T6 Gb (-30°C≤Ta≤+65°C) or (-60°C≤Ta≤+65°C)
- Ex d IIC T5 Gb (-30°C≤Ta≤+80°C) or (-60°C≤Ta≤+80°C)
- Ex tb IIIC T85°C Db IP66 (-30°C≤Ta≤+65°C) or (-60°C≤Ta≤+65°C)
- Ex tb IIIC T100°C Db IP66 (-30°C≤Ta≤+80°C) or (-60°C≤Ta≤+80°C)



EURASIAN CONFORMITY MARK

Hazardous Areas

INTRINSICALLY SAFE Certificate No. EA3C RU C-GB.HA65.B/01199/21

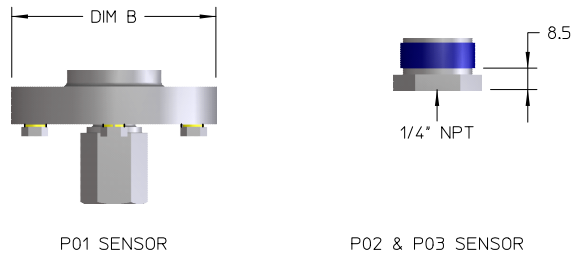
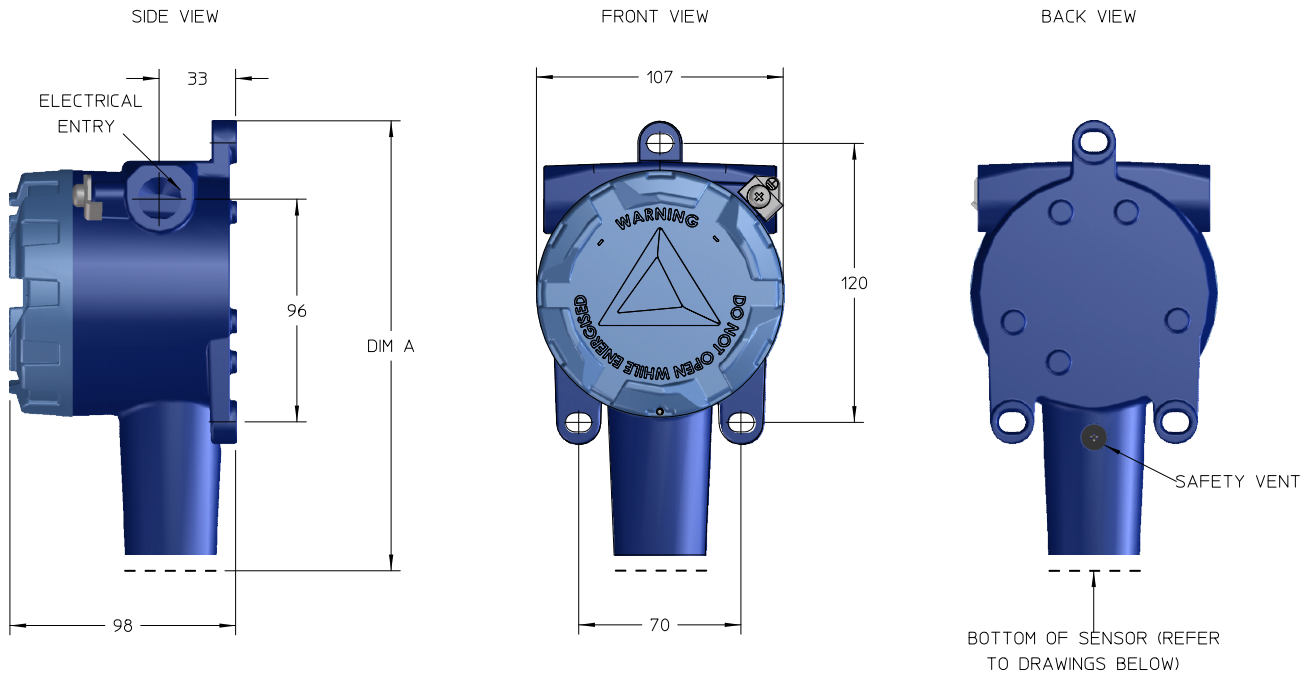
- 0 Ex ia IIC T6 Ga X (-25°C≤Ta≤+60°C) or (-60°C≤Ta≤+60°C)
- 0 Ex ia IIC T5 Ga X (-25°C≤Ta≤+80°C) or (-60°C≤Ta≤+80°C)
- Ex ia IIIC T135 °C Da X (-60°C≤Ta≤+80°C)

FLAMEPROOF Certificate No. EA3C RU C-GB.HA65.B/01199/21

- 1Ex d IIC T6 Gb X (-30°C≤Ta≤+65°C) or (-60°C≤Ta≤+65°C)
- 1Ex d IIC T5 Gb X (-30°C≤Ta≤+80°C) or (-60°C≤Ta≤+80°C)
- Ex tb IIIC T85°C Db X (-30°C≤Ta≤+65°C) or (-60°C≤Ta≤+65°C)
- Ex tb IIIC T100°C Db X (-30°C≤Ta≤+80°C) or (-60°C≤Ta≤+80°C)

If EAC certification is required, this must be evidenced to our sales team at ordering stage for correct marking of the instrument.

Dimensions



Model	Range	DIM A	DIM B
P01	CC, CD, CE	215*	88
	A0, G3	215*	63
P02 & P03	ALL	195	-

* ONLY FOR 1/4" NPT, OTHER CONNECTIONS

Model (weights may vary according to the range & material)	Weight (Kg)	Weight (lb)
WP01* / HP01* / 5P01	2.6	5.0
WP02* / HP02* / 5P02	1.7	3.7
WP03* / HP03* / 5P03*	1.7	3.7
AP01* / RP01* / 4P01*	4.5	9.9
AP02* / RP02* / 4P02	3.8	8.4
AP03* / RP03* / 4P03	3.8	8.4

Sentry Series
Models: P01, P02 & P03

In the interest of development and improvement Delta Mobrey Ltd, reserves the right to amend, without notice, details contained in this publication. No legal liability will be accepted by Delta Mobrey Ltd for any errors, omissions or amendments.

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