

## SMART PRESSURE TRANSMITTER

### General Specifications

#### 1) Diaphragm Sealed Sensor Range (Rangeability: 20: 1)

Range	Code	kPa
Low	4	-100 ~ 1000
Medium	5	0 ~ 5000
High	6	0 ~ 20000

#### 2) Electrical Specifications

Power Supply	11.9 ~ 45 V dc	Output Signal	4 ~ 20 mA dc/HART
HART loop resistance	250 ~ 550 ohm	Isolation	500 Vrms (707V DC)

#### 3) Performance Specifications (without seal)

Reference Accuracy	$\pm 0.075\%$ of Span ( $0.2URL \leq Span \leq URL$ ) $\pm [0.05 + 0.005 \times (URL/Span)]\%$ of Span ( $0.05URL \leq Span < 0.2 URL$ )	Operating Temp.	-40 ~ +85°C
		LCD Meter Operating Temp.	-30 ~ +80°C
		Humidity Limit	5% ~ 98% RH
Ambient Temp. Effect	$\pm [0.025\%URL + 0.125\%Span]/28^\circ C$	Process Temp. Limit	-40 ~ +205°C
Stability	$\pm 0.1\%$ URL for 12 Months	Power Supply Effects	$\pm 0.005\%$ of Span per Volt
Static Pressure Effects	$\pm 0.1\%$ of URL per 7Mpa (Zero Error) $\pm 0.2\%$ of Reading per 7Mpa (Span Error)	Mounting Position Effects	· Zero Shift up to 350Pa · No Span Effect

#### 4) Physical Specifications

Isolating Diaphragm	316L SST	Process Connection Size	1/2" - 14 NPT
Electronic Housing	Aluminum	Diaphragm Seal (Flush/Extended)	2" or 3"/3" or 4"
Weight(Only Transmitter)	1.7Kg	Electrical Connections	1/2" - 14 NPT with M4
		2" Pipe Stanchion Type bracket	Angel or Flat type

#### 5) Hazardous Location Certifications - Option

International Approval	Flameproof approval: Ex d IIC T6 (KOSHA) Intrinsic Safety Approval: Ex ia IIC T5 (KTL) CSA Explosion proof Approval FM Explosion proof Approval ATEX Flame proof Approval
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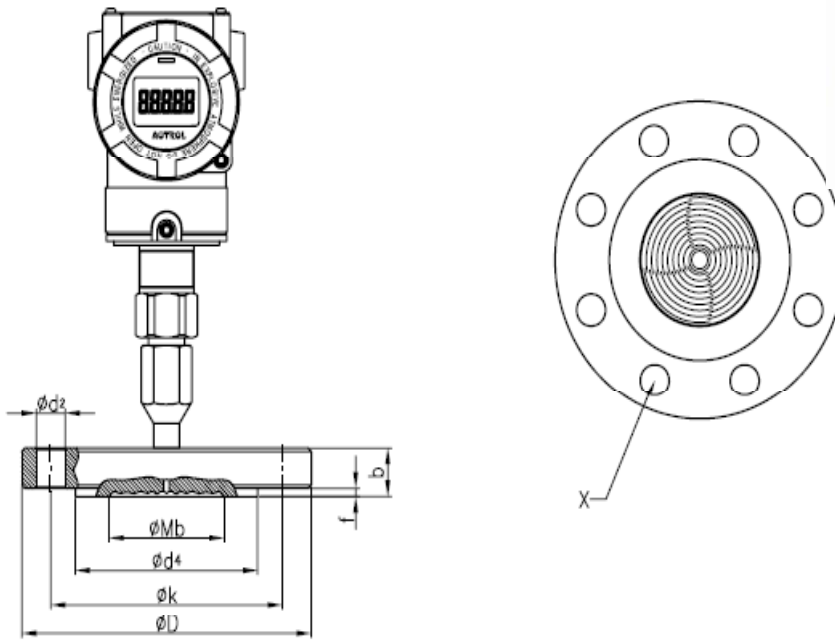


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## SMART PRESSURE TRANSMITTER

### APT3200LFD

Flush Diaphragm Seal and Direct Mount Type Transmitter



#### Flange Size: 80mm (3 inch)

Flange Rating	Mb	D	b	d2	k	f	d4	x
ANSI Class 150	89	190	24	20	152.5	2	127	4
ANSI Class 300		210	29	22	168.5		127	8
JIS 10 K	89	185	18	19	150	2	126	8
JIS 20 K		200	22	23	160		132	
DIN PN 10/6	89	200	20	18	160	2	138	8
DIN PN 25/40			24					

#### Flange Size: 50mm (2 inch)

Flange Rating	Mb	D	b	d2	k	f	d4	x
ANSI Class 150	59	150	20	20	120.5	2	92	4
ANSI Class 300		165	22.5		127			8
JIS 10 K	59	155	16	19	120	2	96	4
JIS 20 K			18					8
DIN PN 10/6	59	165	20	18	125	2	102	4
DIN PN 25/40								

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Doc # APT3200L.SS.ver010110

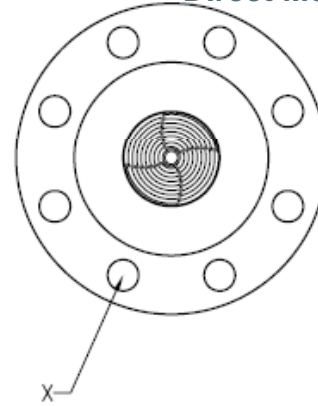
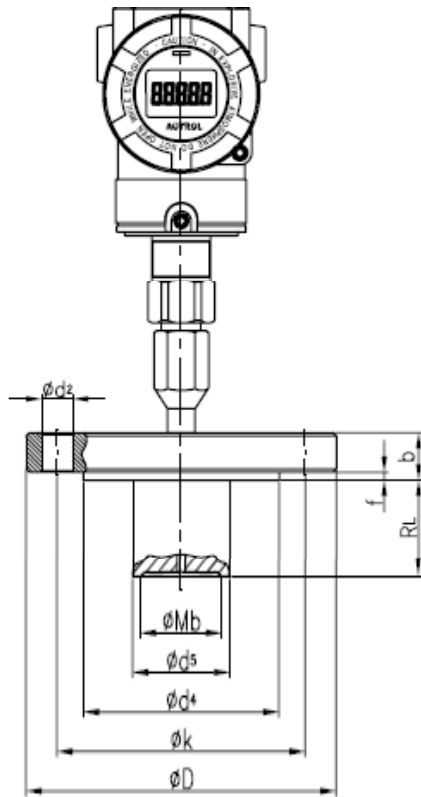
## SMART PRESSURE TRANSMITTER

MODEL NO.	Code	Description	
APT3200	-LFD	Flush Diaphragm Seal and Direct Mount type Transmitter	
Ranges	4	-100 to 1500kPa	
	5	0 to 5000kPa	
	6	0 to 25000kPa	
	X	Special	
Mounting Flange Size/Material	S2	2-inch (50mm)	SST
	S3	3-inch (80mm)	SST
	XX	Special	
Mounting Flange Rating	A1	ANSI Class 150	
	A2	ANSI Class 300	
	J1	JIS 10K	
	J2	JIS 20K	
	D1	DIN PN 10/16	
	D2	DIN PN 25/40	
	XX	Special	
Wetted Parts Material Diaphragm/Others		DIAPHRAGM	OTHERS
	S	316L SST	316L SST
	PT	PTFE + 316L SST	316L SST
	H	Hastelloy C-276	316L SST
	T	Tantalum	316L SST
	X	Special	Special
Fill Fluid	2	D.C.Silicon 200	-40 to 205 °C (-40 to 400 °F)
	7	D.C.Silicon 704	15 to 205 °C (60 to 400 °F)
	X	Special	
Materials of Construction	SS	FLANGE	VENT/DRAIN VALVE
		316L SST	316L SST
Electrical Connection	1	ELECTRICAL CONNECTION	MATERIAL
		½-14 NPT	Epoxy Coated – Aluminum
		G½	Epoxy Coated - Aluminum
	X	Special	
Hazardous Locations Certifications	K0	Maker Standard (Waterproof : IP67)	
	K1	KOSHA Flameproof Approval : Ex d IIC T6	
	K2	KTL Intrinsic Safety Approval : Ex ia IIC	
	*E1	ATEX(KEMA )Flameproof	
	*E2	ATEX(KEMA) Intrinsic Safety	
	*F1	FM/FMC Explosion proof (for USA & Canada)	
	*F2	FM Intrinsic Safety	
	M1	LCD Indicator	
	K	Oil Free Finish	
	LP	Lighting Protector (Internal Type)	
	X	Special Order	

## SMART PRESSURE TRANSMITTER

# APT3200LED

For Extended Diaphragm Seal and Direct Mount Type Transmitter



### Flange Size: 80mm (3 inch)

Flange Rating	Mb	D	b	d2	k	f	d4	d5	x
ANSI Class 150	72	190	24	20	152.5	1.6	127	76	4
ANSI Class 300		210	29	22	168.5				8
JIS 10K	72	185	18	19	150	2	126	76	8
JIS 20K		200	22	23	160		132		
DIN PN 10/16	72	200	20	18	160	2	138	76	8
DIN PN 25/40			14						

### Flange Size: 50mm (2 inch)

Flange Rating	Mb	D	b	d2	k	f	d4	d5	x
ANSI Class 150	47	150	20	20	120.5	2	92	48.3	4
ANSI Class 300		165	22.5		127				8
JIS 10K	47	155	16	19	120	2	96	48.3	4
JIS 20K			18						8
DIN PN 10/16	47	165	20	18	125	2	102	48.3	4
DIN PN 25/40									

Diaphragm Extension Length Code	RL
5	50 mm (2 inch)
10	100 mm (4 inch)
15	150 mm (6 inch)

## SMART PRESSURE TRANSMITTER

Model No.	Code	Description		
APT3200	-LED	<i>Extended Diaphragm Seal and Direct Mount type Transmitter</i>		
	4	<i>-100 to 1500kPa</i>		
	Ranges	5	<i>0 to 5000kPa</i>	
		6	<i>0 to 25000kPa</i>	
	X	<i>Special</i>		
	Mounting Flange Size/Material	S2	<i>2-inch (50mm)</i>	<i>SST</i>
S3		<i>3-inch (80mm)</i>	<i>SST</i>	
XX		<i>Special</i>		
Mounting Flange Rating	A1	<i>ANSI Class 150</i>		
	A2	<i>ANSI Class 300</i>		
	J1	<i>JIS 10K</i>		
	J2	<i>JIS 20K</i>		
	D1	<i>DIN PN 10/16</i>		
	D2	<i>DIN PN 25/40</i>		
Extension Length	XX	<i>Special</i>		
	05	<i>50 mm(2in.)</i>		
	10	<i>100mm(4in.)</i>		
	15	<i>150mm(6in.)</i>		
	XX	<i>Special</i>		
Wetted Parts Material Diaphragm/Others		DIAPHRAGM	OTHERS	
	S	<i>316L SST</i>	<i>316L SST</i>	
	PT	<i>PTFE + 316L SST</i>	<i>316L SST</i>	
	H	<i>Hastelloy C-276</i>	<i>316L SST</i>	
	T	<i>Tantalum</i>	<i>316L SST</i>	
X	<i>Special</i>			
Fill Fluid		FILL FLUID	TEMPERATURE LIMITS	
	2	<i>D.C.Silicon 200</i>	<i>-40 to 205 °C (-40 to 400 °F)</i>	
	7	<i>D.C.Silicon 704</i>	<i>15 to 205 °C (60 to 400 °F)</i>	
	X	<i>Special</i>		
Materials of Construction		FLANGE	VENT/DRAIN VALVE	
	SS	<i>316L SST</i>	<i>316L SST</i>	
	W	<i>without Process Adapter (1/4-18 NPT on the cover flange)</i>		
	N	<i>with 1/2 -14 NPT Process Adapter(316SST)</i>		
Low Side	X	<i>Special</i>		
		ELECTRICAL CONNECTION	MATERIAL	
Electrical Connection	1	<i>½-14 NPT</i>	<i>Epoxy Coated – Aluminum</i>	
	2	<i>G½</i>	<i>Epoxy Coated - Aluminum</i>	
	X	<i>Special</i>		

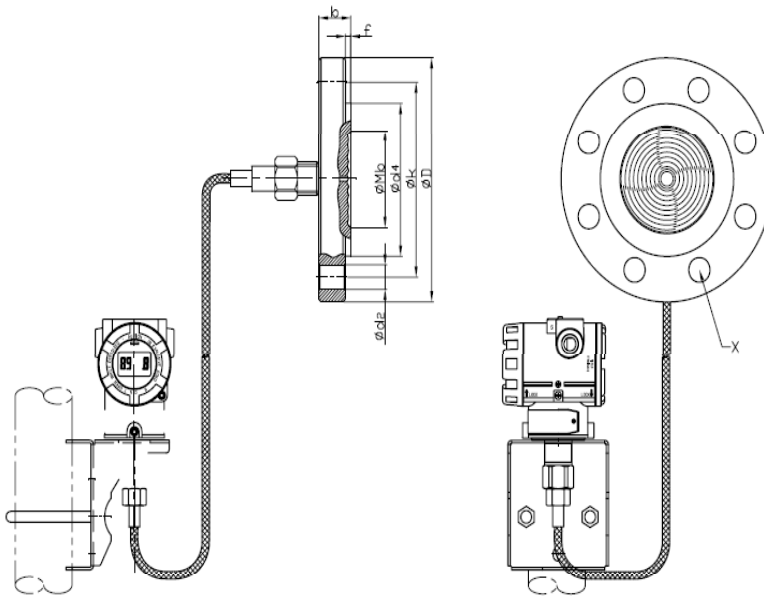
## SMART PRESSURE TRANSMITTER

Hazardous Locations Certifications	K0	<i>Maker Standard (Waterproof : IP67)</i>
	K1	<i>KOSHA Flameproof Approval : Ex d IIC T6</i>
	K2	<i>KTL Intrinsic Safety Approval : Ex ia IIC</i>
	*E1	<i>ATEX(KEMA )Flameproof</i>
	*E2	<i>ATEX(KEMA) Intrinsic Safety</i>
	*F1	<i>FM/FMC Explosion proof (for USA &amp; Canada)</i>
	*F2	<i>FM Intrinsic proof</i>
	M1	<i>LCD Indicator</i>
	LP	<i>Lighting Protector (Internal Type)</i>
	K	<i>Oil Free Finish</i>
	X	<i>Special Order</i>

## SMART PRESSURE TRANSMITTER

### APT3200LFS

Flush Diaphragm Seal and Capillary  
Type Transmitter



#### Flange Size: 80mm (3 inch)

Flange Rating	Mb	D	b	d2	k	f	d4	x
ANSI Class 150	89	190	24	20	152.5	2	127	4
ANSI Class 300		210	29	22	168.5		127	8
JIS 10 K	89	185	18	19	150	2	126	8
JIS 20 K		200	22	23	160		132	
DIN PN 10/6	89	200	20	18	160	2	138	8
DIN PN 25/40			24					

#### Flange Size: 50mm (2 inch)

Flange Rating	Mb	D	b	d2	k	f	d4	x
ANSI Class 150	59	150	20	20	120.5	2	92	4
ANSI Class 300		165	22.5		127			8
JIS 10 K	59	155	16	19	120	2	96	4
JIS 20 K			18					8
DIN PN 10/6	59	165	20	18	125	2	102	4
DIN PN 25/40								

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MODEL NO.	Code	Description	
APT3200	-LFS	Flush Diaphragm Seal and Capillary Type Transmitter	
	4	-100 to 1500kPa	
	5	0 to 5000kPa	
	6	0 to 25000kPa	
	X	Special	
Mounting Flange Size/Material	S2	2-inch (50mm)	SST
	S3	3-inch (80mm)	SST
	XX	Special	
Mounting Flange Rating	A1	ANSI Class 150	
	A2	ANSI Class 300	
	J1	JIS 10K	
	J2	JIS 20K	
	D1	DIN PN 10/16	
	D2	DIN PN 25/40	
	XX	Special	
		DIAPHRAGM	OTHERS
Wetted Parts Material Diaphragm/Others	S	316L SST	316L SST
	PT	PTFE + 316L SST	316L SST
	H	Hastelloy C-276	316L SST
	T	Tantalum	316L SST
	X	Special	Special
Fill Fluid		FILL FLUID	TEMPERATURE LIMITS
	2	D.C.Silicon 200	-40 to 205 °C (-40 to 400 °F)
	7	D.C.Silicon 704	15 to 205 °C (60 to 400 °F)
	X	Special	
Capillary Length(m)		Capillary Length from 1to 12m (3m: 03)	
Materials of Construction	SS	FLANGE	VENT/DRAIN VALVE
		316L SST	316L SST
Electrical Connection	1	ELECTRICAL CONNECTION	MATERIAL
		½-14 NPT	Epoxy Coated – Aluminum
	2	G½	Epoxy Coated - Aluminum
	X	Special	

## SMART PRESSURE TRANSMITTER

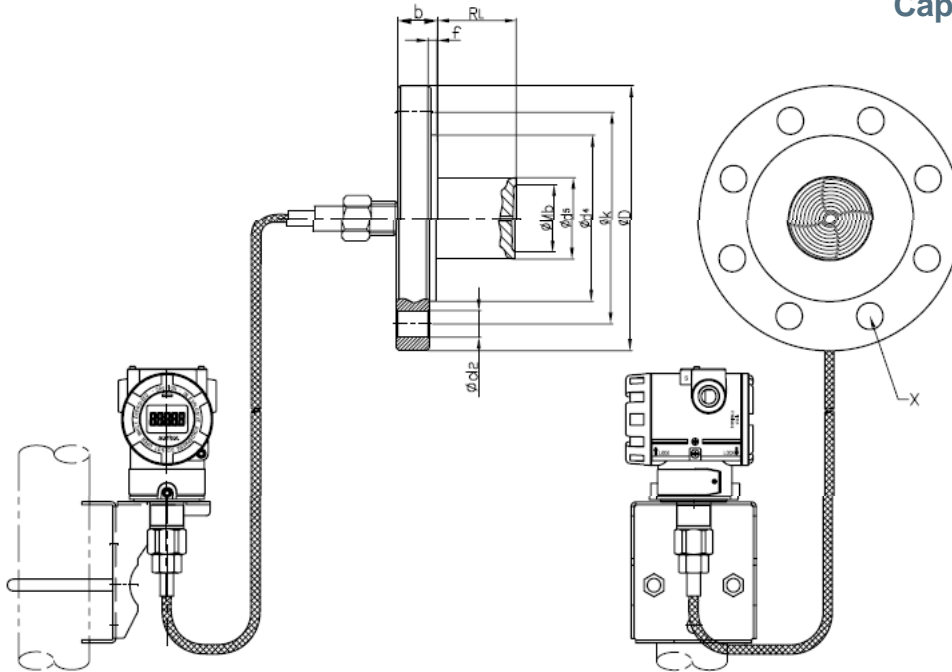
Hazardous Locations Certifications	K0	Maker Standard (Waterproof : IP67)
	K1	KOSHA Flameproof Approval : Ex d IIC T6
	K2	KTL Intrinsic Safety Approval : Ex ia IIC
	*E1	ATEX(KEMA )Flameproof
	*E2	ATEX(KEMA) Intrinsic Safety
	*F1	FM Explosion proof
	*F2	FM/FMC Intrinsic proof (for USA & Canada)
	M1	LCD Indicator
	LP	Lighting Protector (Internal Type)
	K	Oil Free Finish
	BA	Stainless Steel Bracket(Angle Type) with SST Bolts
	BF	Stainless Steel Bracket(Flat Type) with SST Bolts
	X	Special Order

Note 1: Specify Draft Range, Absolute (small pressure and vacuum) and Items marked “ \* ” before order.

## SMART PRESSURE TRANSMITTER

# APT3200LES

Extended Diaphragm Seal and Capillary Type Transmitter



### Flange Size: 80mm (3 inch)

Flange Rating	Mb	D	b	d2	k	f	d4	d5	x
ANSI Class 150	72	190	24	20	152.5	1.6	127	76	4
ANSI Class 300		210	29	22	168.5				8
JIS 10K	72	185	18	19	150	2	126	76	8
JIS 20K		200	22	23	160		132		
DIN PN 10/16	72	200	20	18	160	2	138	76	8
DIN PN 25/40			14						

### Flange Size: 50mm (2 inch)

Flange Rating	Mb	D	b	d2	k	f	d4	d5	x
ANSI Class 150	47	150	20	20	120.5	2	92	48.3	4
ANSI Class 300		165	22.5		127				8
JIS 10K	47	155	16	19	120	2	96	48.3	4
JIS 20K			18						8
DIN PN 10/16	47	165	20	18	125	2	102	48.3	4
DIN PN 25/40									

Diaphragm Extension Length Code	RL
5	50 mm (2 inch)
10	100 mm (4 inch)
15	150 mm (6 inch)

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## SMART PRESSURE TRANSMITTER

MODEL NO.	Code	Description	
APT3200	LES	Extended Diaphragm Seal and Capillary Type Transmitter	
	4	-100 to 1500kPa	
	5	0 to 5000kPa	
	6	0 to 25000kPa	
	X	Special	
Mounting Flange Size/Material	S2	2-inch (50mm)	SST
	S3	3-inch (80mm)	SST
	XX	Special	
Mounting Flange Rating	A1	ANSI Class 150	
	A2	ANSI Class 300	
	J1	JIS 10K	
	J2	JIS 20K	
	D1	DIN PN 10/16	
	D2	DIN PN 25/40	
	XX	Special	
	Extension Length	05	50 mm(2in.)
10		100mm(4in.)	
15		150mm(6in.)	
XX		Special	
Wetted Parts Material Diaphragm/Others			DIAPHRAGM
	S	316L SST	316L SST
	PT	PTFE	316L SST
	H	Hastelloy C-276	316L SST
	T	Tantalum	316L SST
X	Special	Special	
Fill Fluid		FILL FLUID	TEMPERATURE LIMITS
	2	D.C.Silicon 200	-40 to 205 °C (-40 to 400 °F)
	7	D.C.Silicon 704	15 to 205 °C (60 to 400 °F)
Capillary Length (m)	X	Special	
		Capillary Length from 1to 12m (3m: 03)	
	Materials of Construction		FLANGE
SS		316L SST	316L SST
Electrical Connection		ELECTRICAL CONNECTION	MATERIAL
	1	½-14 NPT	Epoxy Coated – Aluminum
	2	G½	Epoxy Coated - Aluminum
	X	Special	

## SMART PRESSURE TRANSMITTER

Hazardous Locations Certifications	K0	Maker Standard (Waterproof : IP67)
	K1	KOSHA Flameproof Approval : Ex d IIC T6
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	K	Oil Free Finish
	BA	Stainless Steel Bracket(Angle Type) with SST Bolts
	BF	Stainless Steel Bracket(Flat Type) with SST Bolts
	X	Special Order

Note 1: Specify Draft Range, Absolute (small pressure and vacuum) and Items marked “\*” before order.

### **Autrol America Inc,**

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