



- Piezoresistive pressure sensor
- 22 mm body diameter
- Long-term excellent work

BCT 22 TECHNICAL SPECIFICATIONS

- Stainless steel case
- EMC and reverse polarity protection
- Analog 4 ... 20mA / 0 ... 10VDC etc. different outputs

BCT 22

• Different models from 100 mBar to 600 Bar

Applications

- Pneumatic Systems
- Hydraulic Systems
- Machines Equipments
- Air Cooling Heating Systems
- Water Technologies
- Automation Applications

ATEK BCT 22 series Pressure transmitters offer high performance for demanding commercial and heavy industry applications.

Our products with piezoresistive working principle can be used in water, air, oil etc. applications.

The standard stainless steel housing with IP65 / IP67 protection can work in harsh environments.

The BCT 22 series, which is not affected by electrical fluctuations and reverse connections due to over voltage and reverse polarity protection, has a long life.

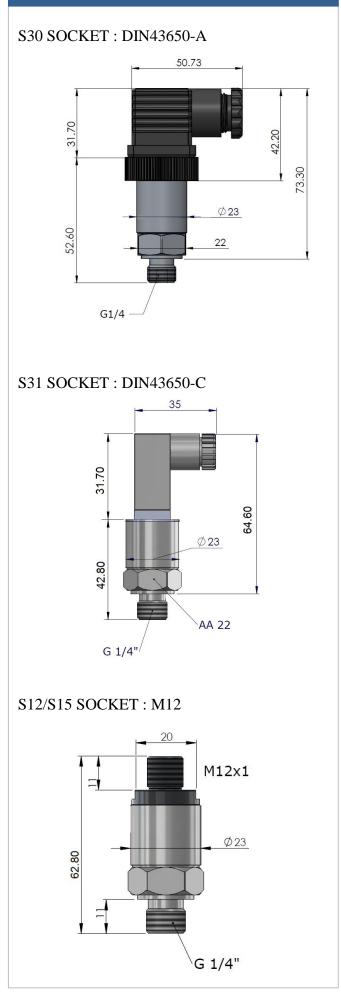
Measurement Range	Diffrent models from 0100mbar to 0600Bar Different vacuum models from 0100mbar to 01Bar
Measurement Type	Ambient pressure measurement as relative Air, Water, Oil, Non-explosive gases
Sensor / Diaphragm	Piezoresistive working principle Ceramic or Silicone Membrane
Maximum Compressive Strength	300%T.S. ≤700mbar, 200%T.S. < 250Bar 150%T.S ≥250Bar *Can be 3 or 5 times.
Oring – Sealing	Standard NBR, optional FKM(Viton) or EPDM
Output Signal	420mA (2 Wire) , 020mA (3 Wire) 010VDC, 16VDC, 05VDC, Ratiometric etc.
Mechanical Connection	G1/4, G1/8, G1/2, NPT1/4, NPT1/8, NPT1/2, M14, 7/16M, 7/16F
Supply Voltage	4-20 mA : 12 30 V _{DC} 0-10 V : 12 30 V _{DC} Ratiometric : 5 V _{DC}
Operating Current	Maximum 30mA
Accuracy	F.S ±%0,5 @25° (Ceramic) F.S ±%0,3 @25° (Silicon)
Long Term Stability	F.S ±%0,3/ year
Response Time	1ms %10%90 nominal pressure
Protection Class	IP65 or IP67
Ambient Temperature	-40°C +85°C
Body	Stainless steel body - 1.4305 (AISI303) Optional stainless 316L or Titanium
Electrical Connection	Models with socket DIN43650-A, DIN43650-C, M12, Packard or PUR cable 3 x 0.14mm (4,9mm cable thickness)
Weight	65 110 gram (except socket)
Mounting / Tightening Torque	15 20 Nm

F.S : Full Scale (working pressure range)

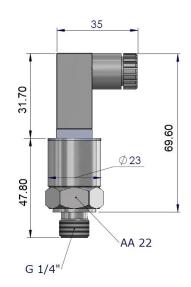
 Product life will be shortened when more pressure is given than working pressure According to the product, it may be damaged at high pressure of 3-5 times.
IP67 protection is provided if M12 socket models are equipped with press-printed sockets.



Mechanical Dimensions (Between 2 Bar and 400 Bar)- CERAMIC







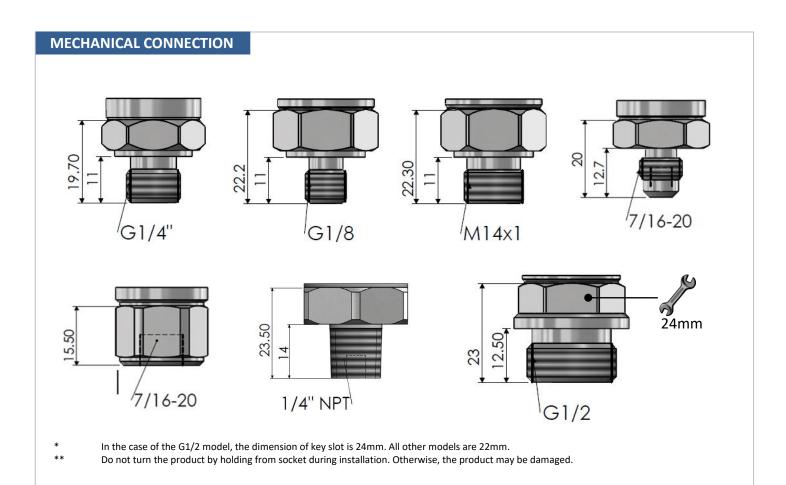


				3			
		DIN D43650-A	DIN D43650-C	N	112	PACKARD	WIRED
		S30	S31	S12	S15	S32	
		PIN NO	PIN NO	PIN	NO	PIN NO	COLOR
CURRENT	+Vcc	2	2	2	1	2	RED
OUTPUT	Analogue Output	1	1	1	3	1	YELLOW
	+Vcc	2	2	2	1	2	RED
VOLTAGE OUTPUT	GND	1	1	1	3	1	BLACK
	Analogue Output	3	3	3	2	3	YELLOW

* For IP67 protection at model with M12 socket, press-printed cable should beused. Otherwise, it can not be used under IP67 conditions.

** There are PUR or PVC cable options in the cable model.

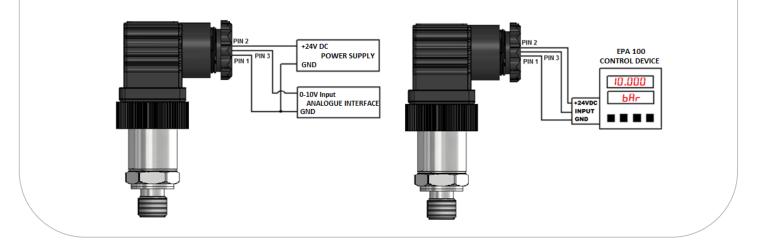
*** On models with the PACKERD socket, the letter of pin numbers are 1(C) , 2(B) , 3(A).



	2 Wire 4-20mA Connection Socket Pin No	Signal	
	1	420mA Analogue Output	
	2	+1230 VDC (Supply)	
Sample Connection:			
	PIN 2 PIN 2 PIN 1 POWER SUPPLY GND 4-20 mA Input ANALOGUE INTERFACE GND		

3 Wire 0-10VDC Connection Socket Pin No	Signal
1	GND
2	+1230 VDC (Supply)
3	010VDC Analogue Output

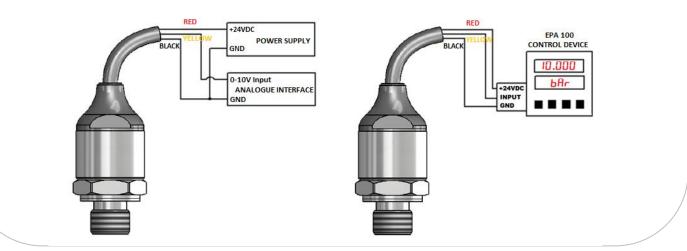
Sample Connection:



2 Wire 4-20mA Connection Cable Color Signal BLACK 420mA Analogue Output RED +1230 VDC (Supply) Sample Connection: PD				
RED+1230 VDC (Supply)Sample Connection:			Signal	
Sample Connection:		BLACK	420mA Analogue Output	
		RED	+1230 VDC (Supply)	
HED +24VDC GND 4-20mA input ANALOGUE INTERFACE GND	Sample Connection	RED +24VDC POWER SUPPLY GND 4-20mA Input ANALOGUE INTERFACE	+24V	

3 Wire 0-10VDC Connection Cable Color	Signal
BLACK	GND
RED	+1230 VDC (Supply)
YELLOW	010VDC Analogue Output

Sample Connection:



WARNING

Wrong connections disrupt the sensor.

If water pressure measurement is used, insert M5 valve to the transmitter. Otherwise, the pressure peaks of water pump disrupts the transmitter.

		Output Signal				
		Voltage Output Prod	· · /			
		V : 0-10VDC (: V1 : 0-5VDC	standard)			
		V1 :0-SVDC V2 :1-6VDC		l Sensor		
		V3 : 0,5-4,5VDC	C : Ceramic (standard NBR Oring) S : Silicon			
		V4 : 0,5-5,5VDC			dard NBR Oring)	
		V5 : 1-5VDC		*All mBar up to 1 Bar, Vacuum models and 600BAR models are Silicone		
		V6 : 1-10VDC				
		Ratiometric Product	ts (5VDC Supply)			
		V8 : Ratiometric	· · · · · ·		modelic recomm	and od for water applications
		V9 : Ratiometric	: 0-5VDC	WARNING: Silicone model is recommended for water applications. The ceramic model can be used in all other applications.		
		Current Output Proc		CF : Viton=FKM Or	ing	Dedu Meterial (
		A : 4-20mA (st A0 : 0-20mA (3	andard) wire connection)	CE : EPDM Oring SF : Silicon Viton = FKM Oring		Body Material/ Custom Coding
		* Ask for other opti	ions.	SE : Silicon EPDM (•	Empty : Stainless 303 E316 : Stainless z 316L
Model						* Ask for other options.
BCT 22	10Bar –	A –	G1/4 =	C –	S30 -	-
	Working Pressur	e Range	Mechanical Co	onnection	Electrical Con	nection
	0100mBar : Vacuu	ım 0100mbar	G1/4 : G1/4 Co	onnection	S30 : DIN4365	0-A type large type socket
	-10Bar : Vacuum		G1/8 : G1/8 Co	onnection		0-C type small type socket
	01Bar : Vacuum	(Reverse Calibration)		nnection	S12 : M12x1 4	•
	100mBar : 0100m	bar	NPT1/4 : NPT1/4			pin (1 supply, 3 output)
	250mBar : 0250m		NPT1/8 : NPT1/8 NPT1/2 : NPT1/2		S32 : Packard 2M : 2 Meter	
	400mBar : 0400m	bar		Connection	2101 . 2 1016161	Cable
	600mBar : 0600m	bar		6x20M Connection	* Ask for other o	otions.
				6x20F Connection		
	1Bar : 01BAR					
	10Bar : 010BAF		* Ask for other op	tions.		
	160-					
	16Bar : 016BAF		Sample Code ·			
	25Bar : 025BAF	3	Sample Code :			
	25Bar : 025BAF 100Bar : 0100BA	R AR	Sample Code : BCT 22 100mBar A	G1/4 S S30		
	25Bar : 025BAF 100Bar : 0100BA 160Bar : 0160BA	R AR AR	BCT 22 100mBar A Features: 0100mb	oar working range, 4-		tput (2 wire connection),
	25Bar : 025BAF 100Bar : 0100BA 160Bar : 0160BA	R AR AR AR	BCT 22 100mBar A Features: 0100mb			
	25Bar : 025BAF 100Bar : 0100BA 160Bar : 0160BA 250Bar : 0250BA	R AR AR AR AR	BCT 22 100mBar A Features: 0100ml G1/4 connection, s	bar working range, 4- ocketed , Silicon me		
	25Bar : 025BAF 100Bar : 0100BA 160Bar : 0160BA 250Bar : 0250BA 400Bar : 0400BA	R AR AR AR AR	BCT 22 100mBar A Features: 0100ml G1/4 connection, s BCT 22 10Bar A G1/ Features: 010BAR	oar working range, 4- ocketed , Silicon mer /4 C S30 working range, 4-20	mbrane, stainless 3 mA analogue outpu	03 body ut (2 wire connection),
iton (FKM-Floure)	25Bar : 025BAF 100Bar : 0100BA 160Bar : 0100BA 250Bar : 0250BA 400Bar : 0400BA 600Bar : 0600BA	R AR AR AR AR AR	BCT 22 100mBar A Features: 0100ml G1/4 connection, s BCT 22 10Bar A G1/ Features: 010BAR G1/4 connection, s	oar working range, 4- ocketed , Silicon mer 4 C S30 working range, 4-20 ocketed, Ceramic me	mbrane, stainless 3 mA analogue outpo embrane, stainless	03 body ut (2 wire connection), 303 body

BY-PRODUCTS

Pressure Transmitter Coolers 180 °C and 250 °C Signal Cables PUR ve PVC 3x0,14 / 5x0,14 / 8x,14mm EPA Series Measurement and Control Devices <u>48x48mm modeli EPA 100</u> <u>74x74mm modeli EPA 200</u> <u>96x48mm modeli EPA 300</u>



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