

THIN-FILM PRESSURE TRANSMITTER

BTT 22

"Thin-Film Steel Diaphragm, Suitable for Chemical Applications, Resistant to Vibrations"



- Completely welded thin-film steel diaphragm structure that does not require o-ring
- 23 mm diameter stainless steel housing
- Different options up to 2000 Bar
- Resistant to vibrations
- Resistant to chemicals
- 4...20mA / 0...10VDC etc. different analogue output options
- G1/4, G1/2, NPT1/4, NPT1/2, M14x1 mechanical connection options
- EMC and reverse polarity protection
- High accuracy and stability
- Excellent long-term operation

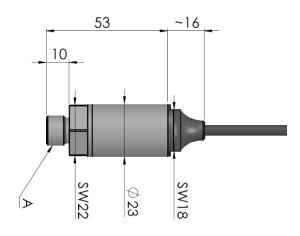
BTT 22 series pressure transmitter is resistant to vibrations and ideal for use in difficult areas such as chemical applications with its completely welded thin-film steel diaphragm structure that does not require o-ring. Various analog output, mechanical connection and connector options are optionally available.

UYGULAMA ALANLARI

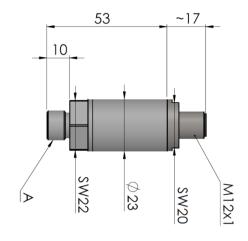
- Machine tools
- Hydraulics
- HVAC
- Refrigeration
- Process technology
- Water treatment

MEKANİK ÖLÇÜLER (mm)

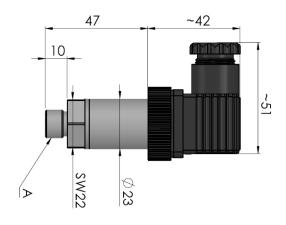
CABLE



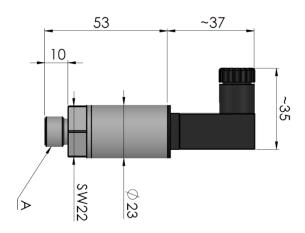
M12 CONNECTOR



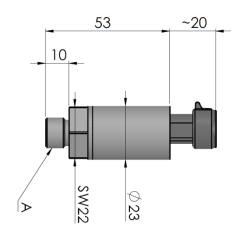
DIN43650-A CONNECTOR



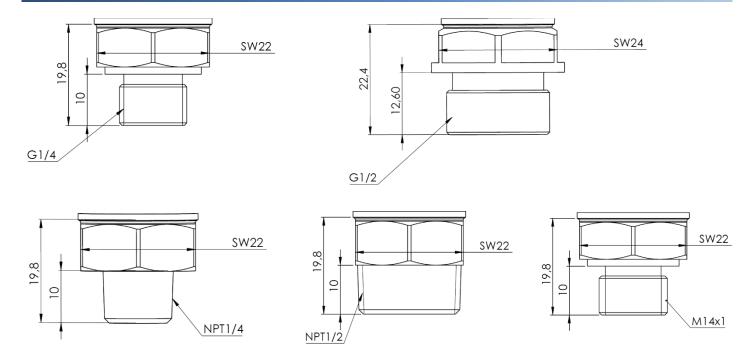
DIN43650-C CONNECTOR



PACKARD CONNECTOR



PROCESS CONNECTION (A)

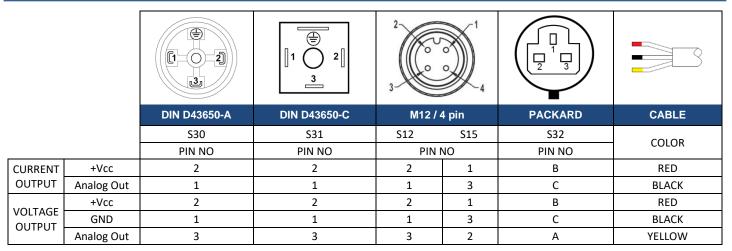


- * In the case of the G1/2 model, the dimension of key slot is 24mm. All other models are 22mm.
- ** Do not turn the product by holding from socket during installation. Otherwise, the product may be damaged.

TECHANICAL FEATURES							
Measuring Principle	Thin-film on steel diaphragm						
Measuring Range	6, 10, 16, 25, 40, 100, 250, 400, 600, 1000 and 2000 bar						
Over Pressure	%300FS <1000Bar, %150FS ≥1000Bar						
Burst Pressure	%500FS (Max. 4000 bar)						
Output Signal	420mA (2	020mA (3	010VDC	16VDC	05VDC	Ratiometric	
Supply Voltage	8 32 VDC	12 30 VDC	12 30 VDC	12 30 VDC	12 30 VDC	5 VDC	
Operating Current	30 mA max.						
Accuracy	±0.5%FS (@0°C~70°C)						
Long Term Stability	≤±%0.1 FS/ yıl						
Zero temperature drift	±%0.03FS/°C						
Full scale temperature drift	±%0.03FS/°C						
Response time	25ms (standard) %10%90 nominal pressure 1ms, 5ms, 125ms (optional)						
Life Time							
Operating Temperature	-40°C +85°C						
Storage Temperature	-40°C +85°C						
EMC Protection	Immunity	IEC 61000-6-2					
EIVIC PTOTECTION	Emission	mission IEC 61000-6-3					
Insulation Resistance	≥1000MΩ/500V AC						
Electrical Connection	DIN43650-A, DIN43650-C, M12, Packard or cable						
Process Connection	G1/4, G1/2, NPT1/4, NPT1/2, M14x1						
Mounting Torque	15 20 Nm						
Material	Pressure 316L Stainless Steel						
	Process 316L Stainless Steel						
	Body 304L Stainless Steel						
Protection	IP65 or IP67 **IP67 protection is provided if M12 connector models are equipped with press-printed						

DS-BTT.006 Rev No:0

ELECTRICAL CONNECTIONS



- For IP67 protection at model with M12 socket, press-printed cable should beused. Otherwise, it can not be used under IP67 conditions.
- PVC cable is used as standard in the model with cable.
- On models with the PACKARD socket, the letter of pin numbers are 1(C), 2(B), 3(A).

PRESSURE RANGE SELECTION						
Code	Pressure Range	Overpressure	Burst Pressure			
6Bar	0∼6Bar	%300FS	%500FS			
10Bar	0∼10 Bar	%300FS	%500FS			
16Bar	$0{\sim}16$ Bar	%300FS	%500FS			
25Bar	$0{\sim}25$ Bar	%300FS	%500FS			
40Bar	$0{\sim}$ 40Bar	%300FS	%500FS			
100Bar	0∼100Bar	%300FS	%500FS			
250Bar	$0{\sim}250$ Bar	%300FS	%500FS			
400Bar	0∼400Bar	%300FS	%500FS			
600Bar	0∼600Bar	%300FS	%500FS			
1000Bar	0∼1000Bar	%150FS	%500FS			
2000Bar	0∼2000Bar	%150FS	%500FS			

ORDER CODE

Output Signal

Voltage Output Product

: 0-10VDC (standard) : 0-5VDC

V2 : 1-6VDC V3 : 0,5-4,5VDC : 0,5-5,5VDC V4 ۷5 : 1-5VDC : 1-10VDC

Ratiometric Products

: Ratiometric 0.5-4.5VDC V8 : Ratiometric 0-5VDC

Current Output Products

: 4-20mA (2-wire) (standard)

: 0-20mA (3-wire) Ask for other options.

G1/4

* Ask for other options.

: Packard socket

: 2 meters cable

Electrical Connection

: M12x1 4 pin

: M12x1 5 pin (for CANopen output)

: M12x1 4 pin (1 supply, 3 output)

: DIN43650-A type large type socket

: DIN43650-C type small type socket

BTT 22

250Bar

Α

S12

S13

S15

S30

S31

S32

2M

S30

Pressure Range

Different options from 6 Bar to 2000 Bar *See. "Pressure selection table"

Mechanical Connection

G1/4

G1/2

NPT1/4

NPT1/2

M14

Sample Order Code: BTT 22 250Bar A G1/4 S30

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^{*} Ask for other options.