NAT 8252

TRANSMISOR INDUSTRIAL DE PRESION

Bar

Psi

Trafag con sede en Suiza, es un fabricante internacional lider de sensores de alta calidad e instrumentos de monitorización para la medición de la presión y la temperatura. El tranmisor industrial de presión NAT 8252 es extremadamente robusto y estable. De pelicula sobre acero, mejorando a su predecesor NAT8251. Implementa un novedoso y personalizado circuito ASICTX que ofrece una amplio rango de temperatura hasta 125°C y un rango de sobrepresión de seguridad del triple. Haciendolo ideal para solucionar perfectamente la mayoria de las aplicaciones.

Compatible con el indicador DIS2flex de Remberg, que proporciona indicación simultánea de la presión real y de la consigna de las 2 alarmas disponibles.

Aplicaciones

- Máquina herramienta
- Hidraúlica
- HVAC
- Refrigeración
- Procesos tecnológicos
- Tratamientos de agua

Caracteristicas

- Diseño muy compacto y reducido.
- Sistema de sensor de acero soldado herméticamente sin juntas adicionales.
- Excelente estabilidad térmica
- Alta resistencia a la sobrepresión. (x3) (x5) **5P**

Datos técnico

Principio de medida	Pelicula sobre acero	Precisión @ 25°C typ	± 0.5 % FS typ.
Rango de medida	0 ... 2.5 to 0 ... 600 bar	Temperatura del medio	-40 ... +125°C
Salida de señal	4 ... 20 mA 0 ... 5 VDC 1 ... 6 VDC 0 ... 10 VDC 0.5 ... 4.5 VDC ratiometric	Temperatura ambiente	–40 ... +125°C (Cable PVC 22: -5 ... +60°C) (Cable PUR 24: -40 ... +70°C)

CONTROLADOR para TRANSMISOR DIS2flex de PRESION

- Alimentación universal
- Visualización presión y alarmas
- Excitación a transmisor
- 2 alarmas

Remberg®

trafag
sensors controls

Ordering information/type code

OPCIONES MAS ESTANDAR

8252 . XX XX XX XX XX XX

Measuring range [1]

Pressure measurement range [bar]	Over pressure [bar]	Burst pressure [bar]		Pressure measurement range [psi]	Over pressure [psi]	Burst pressure [psi]	
0 ... 2.5	7.5	50	**75**	0 ... 30	90	700	**G5**
0 ... 4	12	60	**76**	0 ... 50	150	850	**G6**
0 ... 6	18	100	**77**	0 ... 100	300	1450	**G7**
0 ... 10	30	200	**78**	0 ... 150	450	2500	**G8**
0 ... 16	48	200	**79**	0 ... 250	750	2500	**G9**
0 ... 25	75	300	**80**	0 ... 400	1200	4000	**H0**
0 ... 40	120	300	**81**	0 ... 500	1500	4000	**H1**
0 ... 60	180	400	**82**	0 ... 1000	3000	5000	**H2**
0 ... 100	300	500	**83**	0 ... 1500	4500	7000	**H3**
0 ... 160	480	750	**85**	0 ... 2000	6000	10000	**H5**
0 ... 250	750	1000	**74**	0 ... 3000	9000	14500	**G4**
0 ... 400	1000	2000	**84**	0 ... 5000	12500	21750	**H4**
0 ... 600	1500	2500	**86**	0 ... 7500	18750	29000	**H6**
Option 5P:	**Fivefold overpressure**						
0 ... 2.5	12.5	60	**55**				
0 ... 4	20	100	**56**				
0 ... 6	30	200	**57**				
0 ... 10	50	200	**58**				
0 ... 16	80	300	**59**				
0 ... 25	125	300	**60**				
0 ... 40	200	400	**61**				
0 ... 60	300	500	**62**				
0 ... 100	500	750	**63**				
0 ... 160	800	1000	**65**				

Sensor

Relative pressure	**25**

Pressure connection

G1/4" male, seal: DIN 3869 (accessories 61/63/83)	**17**
1/4"NPT male	**30**
7/16"-20UNF female DIN 3866 (Valve opener) [4]	**24**
R1/4" male ISO 7-1 (DIN 2999) [5]	**19**
R1/8" male ISO 7-1 (DIN 2999) [5]	**16**
M10x1 male	**32**

Electrical connection

Male electrical plug, industrial standard, contact distance 9.4 mm, Mat. PA	**01**
Male electrical plug M12x1, 4-pole, Mat. PA **5P**	**32**
Male electrical plug M12x1, 5-pole, Mat. PA	**35**
Cable IP67, Mat.: PVC [7]	**22**
Cable IP67, Mat.: PUR [7]	**24**
Cable IP67, Mat.: EPD Raychem FDR25 [7]	**08**

Output

Output	Load resistance	I (supply)	U (supply)	
4 ... 20mA	See graphic		24 (9 ... 32) VDC	**19**
0 ... 5 VDC	≥ 5.0 kΩ to Us-	≤ 20 mA	24 (9 ... 32) VDC	**14**
1 ... 6 VDC	≥ 5.0 kΩ to Us-	≤ 20 mA	24 (9 ... 32) VDC	**16**
0 ... 10 VDC	≥ 5.0 kΩ to Us-	≤ 15 mA	24 (15 ... 32) VDC	**17**
0.5 ... 4.5 VDC ratiometric	≥ 5.0 kΩ to Us-	≤ 10 mA	5 (4.75 ... 5.25)	**23**

		8252 . XX	XX	XX	XX	XX	XX
Accessories	Female electrical plug M12x1, 5-pole [2]						33
	Female electrical connector industrial standard (INCLUDED)						34
	Pressure peak damping element ø 1.0 mm [6]						40
	Pressure peak damping element ø 0.4 mm (MALE CONNECTOR M12 4POLES NOT INCLUDED)				5P		44
	Seal FPM, -18...+125°C [8]						61
	Seal EPDM, -40...+125°C [8]						63
	Seal NBR, -25...+100°C [8]						83
	Special pin configuration: Pin 2: +, Pin 3: Ground, Pin 4: - (Only for output signal 19 and male electrical plug 01, industrial standard)						90
	Special pin configuration: Pin 1: Out, Pin 2: +, Pin 3: Ground, Pin 4: - (Only for output signals 14, 16, 17, 23 and male electrical plug 01, industrial standard)						91
	Special pin configuration: Pin 1: +, Pin 2: Ground, Pin 3: -, Pin 4: Out (Only for output signals 14, 16, 17, 23 and male electrical plug 32, M12x1, 4-pole)						96
	Special pin configuration: Pin 1: +, Pin 2: -, Pin 4: Ground (Only for output signal 19 and male electrical plug 32, M12x1, 4-pole)						E1
	Special pin configuration: Pin 1: +, Pin 2: -, Pin 3: Out, Pin 4: Ground (Only for output signals 14, 16, 17, 23 and male electrical plug 32, M12x1, 4-pole)						E2
	Cable length 0.5 m						EM
	Cable length 1.0 m						1M
	Cable length 2.0 m						2M

[1] Customized pressure ranges upon request
[2] For electrical connections 32 and 35
[3] For electrical connection 01
[4] Max. allowable overpressure 120 bar
[5] Max. allowable overpressure 500 bar
[6] Only for pressure connections 17, 30, 32
[7] Cable length see accessories
[8] Only with pressure connection 17 (G1/4" m)

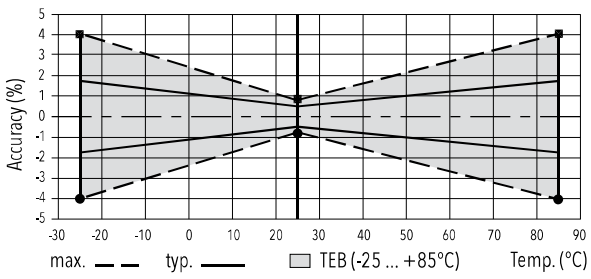
Standard products (extra short lead time)

Product No.	Type Code	Pressure range [bar]	Over pressure max. [bar]	Supply [VDC]	Accuracy @ 25°C typ. [%]
NAT2.5A	8252 75 2517 01 0000 0000 19 34 44 61	0 ... 2.5	7.5	9 ... 32	±0.5
NAT4.0A	8252 76 2517 01 0000 0000 19 34 44 61	0 ... 4	12	9 ... 32	±0.5
NAT6.0A	8252 77 2517 01 0000 0000 19 34 44 61	0 ... 6	18	9 ... 32	±0.5
NAT10.0A	8252 78 2517 01 0000 0000 19 34 44 61	0 ... 10	30	9 ... 32	±0.5
NAT16.0A	8252 79 2517 01 0000 0000 19 34 44 61	0 ... 16	48	9 ... 32	±0.5
NAT25.0A	8252 80 2517 01 0000 0000 19 34 44 61	0 ... 25	75	9 ... 32	±0.5
NAT40.0A	8252 81 2517 01 0000 0000 19 34 44 61	0 ... 40	120	9 ... 32	±0.5
NAT100.0A	8252 83 2517 01 0000 0000 19 34 44 61	0 ... 100	300	9 ... 32	±0.5
NAT250.0A	8252 74 2517 01 0000 0000 19 34 44 61	0 ... 250	750	9 ... 32	±0.5
NAT400.0A	8252 84 2517 01 0000 0000 19 34 44 61	0 ... 400	1000	9 ... 32	±0.5
NAT600.0A	8252 86 2517 01 0000 0000 19 34 44 61	0 ... 600	1500	9 ... 32	±0.5
NAT2.5V	8252 75 2517 01 0000 0000 17 34 44 61	0 ... 2.5	7.5	15 ... 32	±0.5
NAT4.0V	8252 76 2517 01 0000 0000 17 34 44 61	0 ... 4	12	15 ... 32	±0.5
NAT6.0V	8252 77 2517 01 0000 0000 17 34 44 61	0 ... 6	18	15 ... 32	±0.5
NAT10.0V	8252 78 2517 01 0000 0000 17 34 44 61	0 ... 10	30	15 ... 32	±0.5
NAT16.0V	8252 79 2517 01 0000 0000 17 34 44 61	0 ... 16	48	15 ... 32	±0.5
NAT25.0V	8252 80 2517 01 0000 0000 17 34 44 61	0 ... 25	75	15 ... 32	±0.5
NAT40.0V	8252 81 2517 01 0000 0000 17 34 44 61	0 ... 40	120	15 ... 32	±0.5
NAT100.0V	8252 83 2517 01 0000 0000 17 34 44 61	0 ... 100	300	15 ... 32	±0.5
NAT250.0V	8252 74 2517 01 0000 0000 17 34 44 61	0 ... 250	750	15 ... 32	±0.5
NAT400.0V	8252 84 2517 01 0000 0000 17 34 44 61	0 ... 400	1000	15 ... 32	±0.5
NAT600.0V	8252 86 2517 01 0000 0000 17 34 44 61	0 ... 600	1500	15 ... 32	±0.5

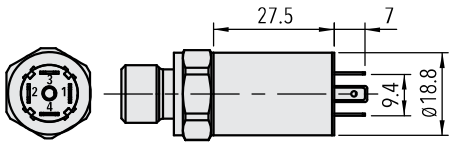
Specifications		
Accuracy	TEB typ. @ -25 ... +85°C	± 1.75 % FS typ.
	Accuracy @ 25°C typ.	± 0.5 % FS typ.
	NLH @ 25°C (BSL) typ.	± 0.2 % FS typ.
	TC zero point and span typ.	± 0.03 % .FS/K typ.
	Long term stability 1 year typ.	< ± 0.2 % FS typ.
Electrical Data	Output / supply voltage	4 ... 20 mA: 24 (9...32) VDC 0 ... 5 VDC: 24 (9...32) VDC 1 ... 6 VDC: 24 (9...32) VDC 0 ... 10 VDC: 24 (15...32) VDC 0.5 ... 4.5 VDC ratiom., 10 ... 90% U_{supply}: 5 ± 0.25 VDC
	Rise time	typ. 1 ms/10...90 % nominal pressure
	Switch-on-delay	100 ms
Environmental conditions	Media temperature	–40 ... +125°C
	Ambient temperature	–40 ... +125°C (Cable PVC 22: -5 ... +60°C) (Cable PUR 24: -40 ... +70°C)
	Protection [1)]	Min. IP65
	Humidity	Max. 95 % relative
	Vibration	15 g RMS (20...2000 Hz) 25 g sin (80...2000 Hz), 1 Okt./min, (1x @ 25°C)
	Shock	50 g / 11 ms
EMC Protection	Emission	EN/IEC 61000-6-3
	Immunity	EN/IEC 61000-6-2
Mechanical Data	Sensor	1.4542 (AISI630)
	Housing / Pressure connection	1.4301 (AISI304)
	Sealing	FPM/EPDM/NBR
	Male electrical plug	see ordering information
	Weight	appr. 50 g
	Mounting torque	25 Nm

[1)] Provided female connector is mounted according to instructions

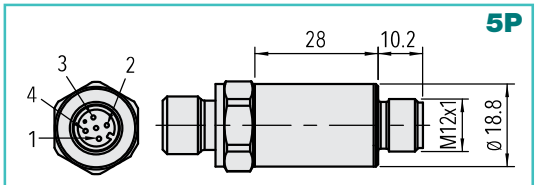
Measuring accuracy



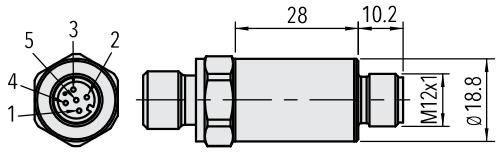
Dimensions



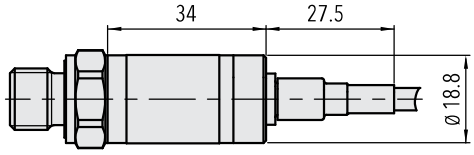
8252.XX.XXXX.**01**.XX.XX



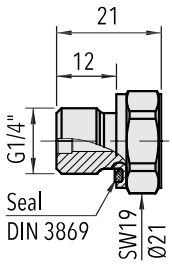
8252.XX.XXXX.**32**.XX.XX



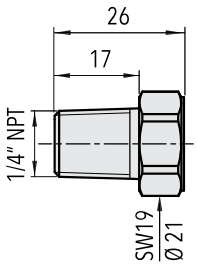
8252.XX.XXXX.**35**.XX.XX



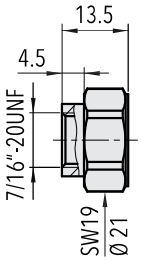
8252.XX.XXXX.**22/24/08**.XX.XX



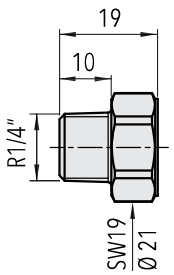
8252.XX.XX**17**.XX.XX.XX



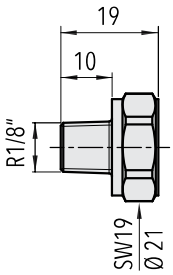
8252.XX.XX**30**.XX.XX.XX



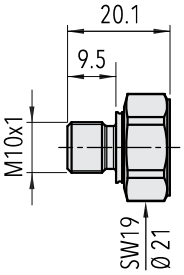
8252.XX.XX**24**.XX.XX.XX



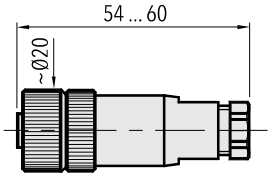
8252.XX.XX**19**.XX.XX.XX



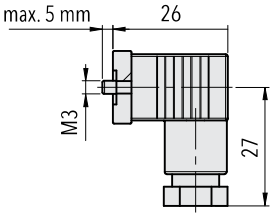
8252.XX.XX**16**.XX.XX.XX



8252.XX.XX**32**.XX.XX.XX

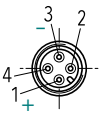
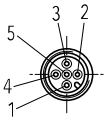
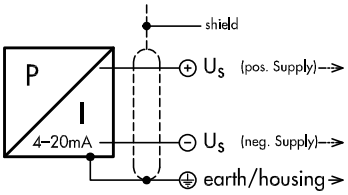
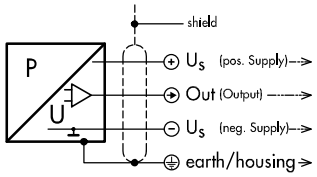


8252.XX.XXXX.XX.XX.**33**



8252.XX.XXXX.XX.XX.**34**

Electrical Connection

		Protection / electrical connection						
		IP65 *)**	IP67 *)**				IP67**	IP67**
		Industrial standard Contact distance 9.4 mm	5P	M12x1		5-pole	Cable	Cable
		01	4-pole **32**			**35**	**22/24**	**08**
								
Output signal	 **8252**.xx.xxxx.xx.**19**		90	5P	E1			
		2	2	1	1	4	white	red
		1	4	3	2	1	brown	black
		4	3	4	4	5	yellow	green
	 **8252**.xx.xxxx.xx.**14/16/17/23**		91		96	E2		
		1	2	1	1	1	2	white	red
		2	1	2	4	3	4	green	white
		3	4	3	3	2	3	brown	black
		4	3	4	2	4	5	yellow	green

*) Provided female connector is mounted according to instructions

**) Ventilation via male electric plug/cable end

4...20mA: min./max resistor vs. supply voltage @ Pmax = 100%