

OEM Pressure Sensors "MobilTrans"

For mobile hydraulics

Accuracy 1% Standard output: 4...20mA; 2-wire or 0...5VDC; 3-wire or 0...10VDC; 3-wire or 0.5...4.5VDC; ratiometric



Description

Our new pressure sensor MobilTrans is designed for rough environments and extreme applications e.g. mobile hydraulics systems where shock and vibration but also pressure peaks or steam jet cleaning are daily routine. All of these effects have no impact on the accuracy and reliability of our measurements. Due to fully automated production we can offer very attractive prices and high quantities.

A high degree of automation is used to produce the MobilTrans pressure transducer, which enhances consistency and reliability.

Features

- o Measuring ranges from 0...60bar to 0...600bar
- o Highly resistant to shock and vibrations
- High EMC-protection (100V/m) according to EN 61 326
- o Compact design
- o Protection up to IP69K
- Excellent temperature performance (-40°C to 125°C)
- o Resistance to pressure peaks (CDS system)

Applications

Mobile hydraulics Hydraulics Pumps Machine and plant construction

Model: P3354

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Technical data

Model P3354

Pressure type	Positive guage pressure					
- Ranges [bar]	60	100	160	250	400	600
- Overload limit [bar]	120	200	320	500	800	1200
- Burst pressure [bar]	550	800	1000	1200	1700	2400
Sensor element	Thin film	800	1000	1200	1700	2400
Output signal	420mA	2-wire				
Output signal	15VDC	3-wire				
	010VDC	3-wire				
	0.54.5VDC ratiometric					
	other signals on request					
Accuracy ¹⁾	≤ 1.0% of F.S. (≤ 0.5% BFSL)					
Non linearity ²⁾	≤ 0.4% of F.S. BFSL					
Repeatabilty	$\leq \pm 0.3\%$ of F.S.					
Stability (annual)	$\leq \pm 0.3\%$ of F.S. (in rated condition)					
Material,						
Case	Fibre reinforc	ed plastic (PB1	Γ)			
Wetted parts	stainless steel 1.4435 and 1.4542					
Pressure connection	G 1/4 according to DIN 3852-E					
	M14x1,5 according to DIN 3852-E					
	7/16-20 UNF-2A, male O-Ring					
	1/4 NPT					
	other pressure connections on request					
Electrical connection	connector Metri Pack Serie 150					
	round connector M12x1 (4-pin) cable outlet with 1.5m cable					
	AMP Superseal connector 1.5 (3-pin)					
	other electrical connections on request					
Power supply / load						
420mA	1036VDC	R₄ [Ω]	≤ (U _B [V] – 10√	/) / 0.02A		
15V	836VDC $R_A > 2,5k\Omega$					
010V	1436VDC	R _A > \$				
0.54.5V ratiometric	$5\pm0.5VDC$	$R_A > 4$				
Response time	\leq 2ms within 10% to 90% of F.S.					
Protection type	according to EN 60529					
Packard Metri Pack 150	IP67					
Round connector M12x1	IP67					
Cable outlet	IP69K (steam jet cleaning)					
AMP Superseal connector	IP67					
EMC	according to					
Interference Resistance	according to EN 61 326 according to EN 61 326					
Electrical protection type	reverse polarity, overload and short-circuit protection except ratiometric output signals					
Temperature influence		ity, overload al				input signals
Median TC zero point	$\leq \pm 0.15\% / 10K^{3)}$					
Median TC measuring range	$\leq \pm 0.15\% / 10K$					
Temperature ranges						
Compensated range	080°C					
Storage	-40120°C					
	-40125°C					
Media	-40125 C					
Ambient	-40120°C					
Ambient Loading capacity	-40100°C					
Ambient Loading capacity Shock (mechanical shock)	-40100°C 500g accordi	ng to IEC 6006				
Ambient Loading capacity	-40100°C 500g accordi	ng to IEC 6006 g to IEC 60068				

¹⁾ Including non-linearity, hysteresis, non-repeatability, zero point and full scale error (corresponds to error of measurement per IEC 61298-2).
²⁾ According to IEC 61298-2
³⁾ For special pressure ranges increased TC of zero

BFSL = Best fitt straight line of F.S. = of full scale value

Dimensions (mm)

Housing

Connector Metri Pack 150

Round connector M12x1

Cable outlet

AMP Superseal 1.5









Pressure connections



G 1/4B according to DIN 3852-E



M14x1.5



1/4 NPT



7/16-20 UNF-2A

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Electrical connection

Two-wire system

Round connector M12x1:



Cable outlet:



Connector Metri Pack 150:



AMP Superseal:



Three-wire system

Round connector M12x1:



Cable outlet:



Connector for Metri Pack 150:



AMP Superseal:



Subject to technical alterations

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