Dynisco

Model
MDA435
MDA467

Melt pressure transducer for pressure measurement in hot media and small areas

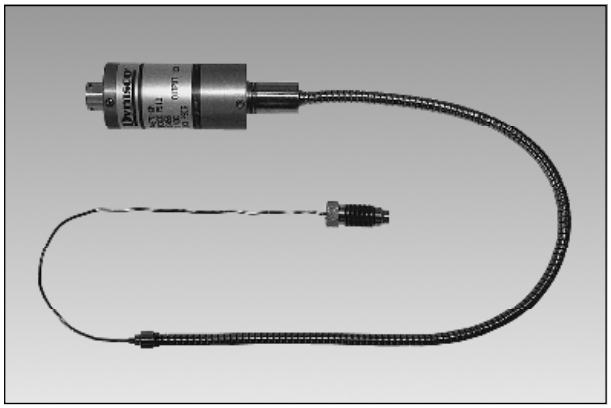
Description

The models MDA435 und MDA467 were designed for applications where mounting space is extremely limited. The exposed part of the capillary allows a small bending radius of 3 mm.

The specially developed snout configuration facilitates transducer installation in restricted areas. The pressure transmission from the diaphragm to the strain gauge is done through a temperature compensated liquid column.

Features

- Installation for media temperature up to 400 °C
- Pressure transducer for small areas
- Flexible capillary between diaphragm and housing
- Liquid-filled transmission system
- Electrical built-in calibration
- Exposed, bendable capillary
- Fits in space restricted areas



Technical Data / Operating Data

Pressure range	0 - 35 bar to 0 - 2000 bar	Maximum overload (without influencing operating data)	2 x pressure range but for 1000 and 1400 bar range max.1750 bar, for 2000 bar max. 2400 bar
Accuracy	MDA435 ± 0.5 % f.s.v. - up to 50 bar ± 1 % f.s.v. MDA467 ± 1 % f.s.v.	Burst pressure	6 x pressure range max. 3000 bar
Repeatability	MDA435 ± 0.1 % f.s.v. - up to 50 bar ± 0.2 % f.s.v. MDA467 ± 0.2 % f.s.v.	Material in contact with media	15-5 Mat. No. 1.4545, DyMAX coated
Resolution	infinite		

Electrical Characteristics

Configuration	4-arm Wheatstone bridge strain gauge (DMS)	Supply voltage	10 V DC, max. 12 V DC
Strain resistance	350 Ω	Internal Shunt-Calibration	80 % f.s.v. ± 0.5 % MDA435 ± 1.0 % MDA467
Output signal	3.33 mV/V		
Zero balance	± 5 % f.s.v., MDA435 ± 10 % f.s.v., MDA467	Leakage resistance	1000 MΩ at 50 V DC

ICS Schneider Meßtechnik GmbH
Briesestraße 59
D-16562 Bergfelde / Berlin

Tel.: 03303 / 504066
Fax: 03303 / 504068

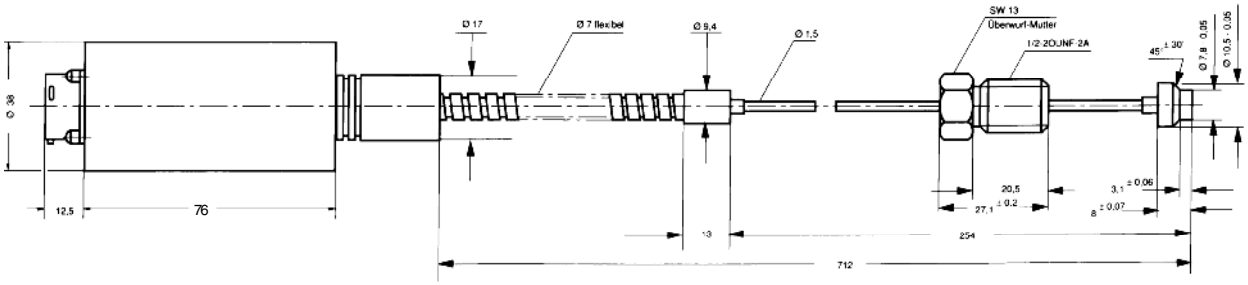
info@ics-schneider.de
www.ics-schneider.de

Temperature influence

Diaphragm		Housing	
Max. Temperature	400 °C	Max. Temperature	120 °C
Zero shift due to temperature change	MDA435 < 0,2 bar / 100 °C MDA467 < 0,4 bar / 100 °C	Zero shift due to temperature change	MDA435 ± 0.2% f.s.v./10 °C MDA467 ±1.0 % f.s.v./10 °C
		Sensitivity shift due to temperature change	MDA435 ± 0.1% f.s.v./10°C -up to 50 bar ±0.2 % f.s.v./10°C MDA467 ± 0.4% f.s.v./10°C

Dimensions

MDA435 / MDA467



Accessories

Indicator 1390, Process Readout UPR700, Process Controller ATC770, Cleaning Tool Kit, Machining Tool Kit

Order specifications

MDA4XX - XXX - XXXX

Model
MDA435 = 0.5% Accuracy
MDA467 = 1.0% Accuracy

Options

Pressure range

35[1]	= 0 - 35	Bar	**3,5C**	= 0 - 350	Bar	**1,4M**	= 0 - 1400	Bar
50[1]	= 0 - 50	Bar	**5C**	= 0 - 500	Bar	**2M**	= 0 - 2000	Bar
1C	= 0 - 100	Bar	**7C**	= 0 - 700	Bar	[1] only MDA435		
2C	= 0 - 200	Bar	**1M**	= 0 - 1000	Bar			

Conversion table psi/bar and inch/mm on page 141.

Options on page 136.

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