



New Generation 2-wire Melt Pressure Transmitter with excellent Noise Suppression and "Auto-Zero" Push-Button-Function Series MDT435F / MDT467F

Description

The new Pressure Transmitter Series MDT provides special features for critical field applications in high noise surroundings.

The utilization of unshielded cables is also possible for long distance transmission free of noise interference for the converted process pressure signal 4-20 mA.

A further improvement is the new kind of Zero-adjustment through an integrated "Auto-Zero" function, initiated either

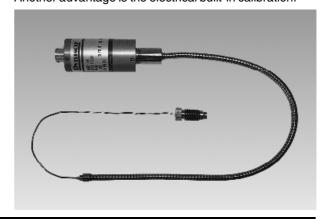
Features

- Simple and cheap unshielded two-wire cable connection in high noise ambients
- Efficient "Auto-Zero" adjustment either through pushbutton on the transmitter or in the control room
- 4-20 mA two-wire Signal Output
- Electrical built-in calibration
- Installation for media temperatures up to 400 °C
- Small sensing tip with free spinning jam nut, thin capillary for tight places
- Failure detection through "fail-safe" signal levels acc.to NAMUR recommendation NE43

0 - 17 bar to 0 - 2000 bar

directly in the field on the transmitter "zero push-button" or from the distance in the control room.

Many of the features found in Dyniscos standard MDAseries have been incorporated into the amplified MDT-series. These versions have an exposed thin capillary which allows 2mm radius bends in applications, where mounting space is limited. It also has a short pressure sensing element with a free spinning jam nut that simplifies installation. Another advantage is the electrical built-in calibration.



2 x pressure range

Technical Data

Pressure range

i roodaro rango	0 17 bai to 0 2000 bai	Maximamovonoaa	Z x procedure range
Accuracy	MDT435F \pm 0.5 % FSO - up to 50 bar \pm 1 % FSO	(without influencing operating data)	for range 1000 and 1400 bar max. 1750 bar and max. 2400 bar for range 2000 bar
	MDT467F ± 1 % FSO		
Repeatability	MDT435F ± 0.1 % FSO - up to 50 bar ± 0.2 % FSO	Burst pressure	6 x pressure range max. 3000 bar
	MDT467F ± 0.2 % FSO	Material in contact	15-5 PH SST (Mat. No.
Resolution	infinite	with Media	1.4545) DyMAX™ coated

Maximum overload

Electrical Characteristics

Configuration	4-arm Wheatstone bridge strain gauge (DMS)	Range Calibration 80% FSO Load resistance	"Short circuit" between connection pins "CAL" and "GND" at the transmitter or externally from the control room $Maximum\ 1200\Omega\ at\ 36\ V\ DC$ $Maximum\ 500\Omega\ at\ 24\ V\ DC$
Internal Shunt-Calibration	80 % of full scale \pm 1 %		
Output signal	2-wire 4 - 20 mA		
Supply voltage	12 - 36 V DC		
Zero balance	Through "Auto-Zero"- adjustment function		
– "	•	Isolation resistance	1000 MΩ at 50 V DC
"Auto-Zero" initiation	In the field on the transmitter, "Zero"-push- button, or externally via "short circuit" between contacts "NP" and "GND"	"Fail-Safe" signal levels	Signal levels acc. to NAMUR recommendation NE43: <=3,6mA or >=21,5mA

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Temperature Influence

Diaphragm

Max.Temperature

Zero shift due to temperature

change

400 °C

MDT435F < 0.2 bar / 10 °C

MDT467F < 0.4 bar / 10 °C

Sensitivity shift

Max.Temperature

Zero shift due

to temperature

change

change

Housing

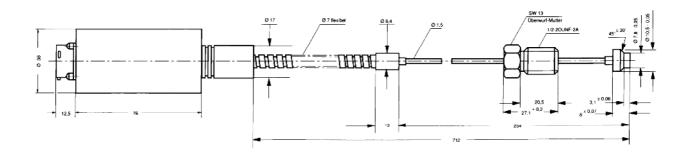
due to temperature

MDT435F ±0.1% FSO/10 °C -up to 50 bar ± 0.2% FSO/10 °C MDT467F ±0.3% FSO/10 °C

 \pm 0.2 % FSO / 10 °C

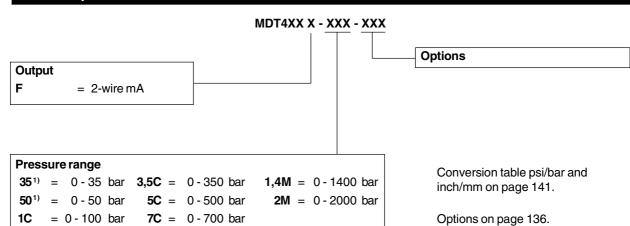
85 °C

Dimensions



Accessories

Order Specifications



1) only MDT435 F

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= 0 - 200 bar

1M = 0 - 1000 bar

2C