

Product-Information

THERMOVAC Transmitters TTR 91

Active Sensors

Cat. No.: 230035



Product-Description

THERMOVAC transmitters are active sensors (pressure to voltage converters) using thermal conductivity according to Pirani.

The further developed THERMOVAC transmitters have optimized price-to-performance ratio.

The value of the trigger point can be switched easily on the analog output and be shown on the display of the operating unit.

Advantages to the User

- Rugged sensing cells made of stainless steel
- Compact design
- Stable measurements within a wide temperature range
- Highly resistant to overpressures
- Exchangeable sensing cells
- Fast response
- Available with integrated switching relay (TTR 91 S)

Typical Applications

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- Analytical engineering
- Safety circuits in vacuum systems
- Controlling ionization gauges
- General pressure measurement and control on systems in the fine and rough vacuum range

TTR 91, DN 16 KF, without switching threshold

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Description	Unit	Value
Measurement uncertainty	% FS	15 % im Bereich von 1 · 10 ⁻³ bis 100 mbar
Measurement principle		Wärmeleitung nach Pirani
Supply voltage	V DC	14 bis 30 V DC, Brummspannung ≤ 1 Vss
Power consumption	W	< 1
Storage temperature range	°C	-20 bis +65
Nominal temperature range	°C	5 bis 60
Max. rel. humidity	% n.c.	< 80
Protection type	IP	IP 40
Weight, approx., for DN 16 KF	kg	0,08
Sensor		austauschbare Messzelle
Degassing temperature, max.	°C	80 (250 mit langer Zelle)
Dead volume	cm ³	2 (10 mit langer Zelle)
Materials in contact with the medium		Edelstahl, Nickel, Glas, NIFE
Materials filament		Wolfram
Overpressure rating (absolute)	bar	10
Signal Output		0 bis 10,3 V
Measurement signal		1,9 bis 10 V, entspricht 5 · 10 ⁻⁴ bis 1 · 10 ³ mbar, 1,286 V/Dekade logarithmisch
Status signal		Fehler: ≤ 0,5 V
Switching tresholds		
Adjustment range	mbar	
Hysteresis		
Reaction time	ms	
Error status		
Status indicators		

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Electrical connection		FCC-68/RJ45-Buchse, 8polig mit Abschirmung
Length of the mains cable	m	100

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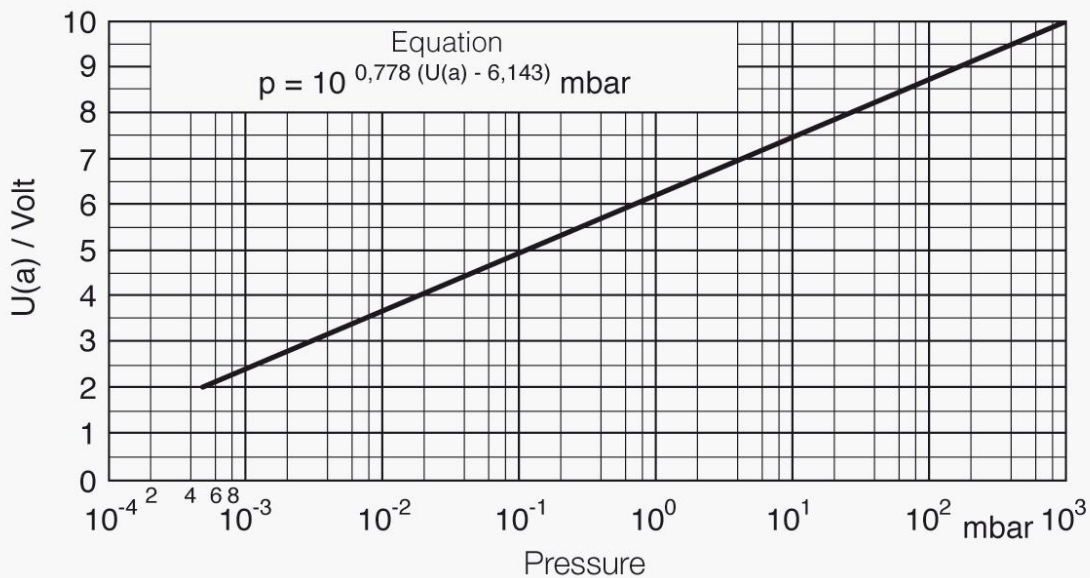
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Technical Drawing

Characteristic of the THERMOVAC Transmitters



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Technical Drawing

