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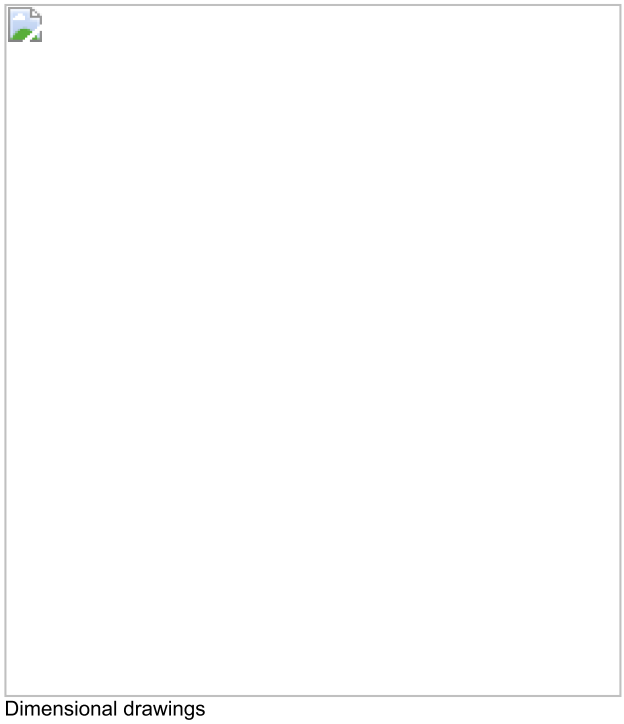
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Find the *Leybold 235002* at our website: *Click HERE*

IONIVAC Transmitter ITR 100





Dimensional drawings

Technical Data

ITR 100 Transmitter

Measurement range	mbar (Torr)	2×10^{-10} to 1×10^{-1} (1.5×10^{-10} to 0.75 x 10-1) Threshold 1×10^{-10} (0.75×10^{-10})
Reproducibility (standard deviation to DIN 1319-1)		±10 % of the meas. value, in proc. press. range 1×10^{-7} to 1×10^{-2} mbar
Principle of measurement		Wide range Bayard-Alpert ionization gauge
Degas		Electron bombardment 3 minutes, max.
Emission current (automatic switching)		5 mA to about 5×10^{-5} mbar 25 µA from about 5×10^{-5} to 1×10^{-1} mbar
Supply voltage		20 to 28 V DC, typ. 24 V DC Hum voltage < 2 Vpp
Current consumption	A	0.5 in the measurement mode
	A	0.8 in the degassing mode
	A	1.4 during start-up (about 1 s.)
Storage/nominal temperature range	°C	-20 to +70/0 to +50
Max. rel. humidity (climatic class F)	% n.c.	95
Protection class		IP 54
Dimensions (H x W x D)	mm	See dimensional drawing
Weight, approx.		
ITR 100, DN 25 KF	kg (lbs)	0.98 (2.2)
ITR 100, DN 40 CF	kg (lbs)	1.28 (2.8)
Sensor		Fully sealed, exchangeable, with automatic self-calibration
Cathode		2 x yttriumoxide coated iridium cathode, capable of withstanding air inrushes, automatic switch off in case of overpressures
Vacuum connection	DN	25 KF or 40 CF
Degassing temperature, max.	°C	80 (DN 25 KF flange), 150 (DN 40 CF flange)
Dead volume, max.	cm^3	24 at DN 25 KF 34 at DN 40 CF

Materials in contact with the medium		Stainl. steel, yttriumoxide, glass, NiFe, NiCr, tungsten
Over-pressure rating (abs.)	bar	2
Signal output (Ra > 10 kΩ) Measurement signal (selectable)		0 to 10 V, 1 V/decade, logarithm. divisions or 3 decades selectable out of 9 decades; linear over 9 decades, mantissa 0.8 to 10 V with extra output for the exponent: 1 V increments/decade
Signal rise time	ms	< 100 (at p > 1 x 10^{-6} mbar)
Trigger		1 normally open relay contact
Adjustment range	mbar (Torr)	1 x 10^{-9} to 1 x 10-1 (0.75 x 10^{-9} to 0.75 x 10^{-1})
Hysteresis		about 10 % of the value
Reaction time	ms	< 100 (at p > 1 x 10^{-6} mbar)
Contact rating		60 V, 0.5 A DC
Control input (RE = 11 kΩ) Programmable control compatible, 24 V logic		Emission: ON/OFF; DEGAS: ON/OFF Switchover between measurement signal/trigger level
Electrical connection		15 way sub-D male connector
Cable length, max.	m	100

Ordering Information — ITR 100 Transmitter

ITR 100, DN 25 KF (RS 232 C interface)	**Cat. No. 163 60**
Replacement sensor IE 100, DN 25 KF	**Cat. No. 163 61**
ITR 100, DN 40 CF (RS 232 C interface)	**Cat. No. 163 66**
Replacement sensor IE 100, DN 40 CF	**Cat. No. 163 67**
ITR 100, DN 25 KF with Profibus DP	**Cat. No. 163 70**
ITR 100, DN 40 CF with Profibus DP	**Cat. No. 163 72**
ITR 100, DN 25 KF with DeviceNet	**Cat. No. 163 74**
ITR 100, DN 40 CF with DeviceNet	**Cat. No. 163 75**
Connection cable, 10 m with 15 way sub-D socket for connection to ITR 100 (bare wires ends on the other end of the cable)	**Cat. No. 163 69**

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