

ITV209*, Electronic Vacuum Regulator

ITV2090-31F2N5

Datasheet

General series information

- Pressure range: -1.3 to -80 kPa
- Maximum flow rate: 200 l/min (ANR)
- Port size: 1/4
- Applicable fieldbus protocols: IO-Link, CC-Link, DeviceNet™, PROFIBUS, RS-232C.



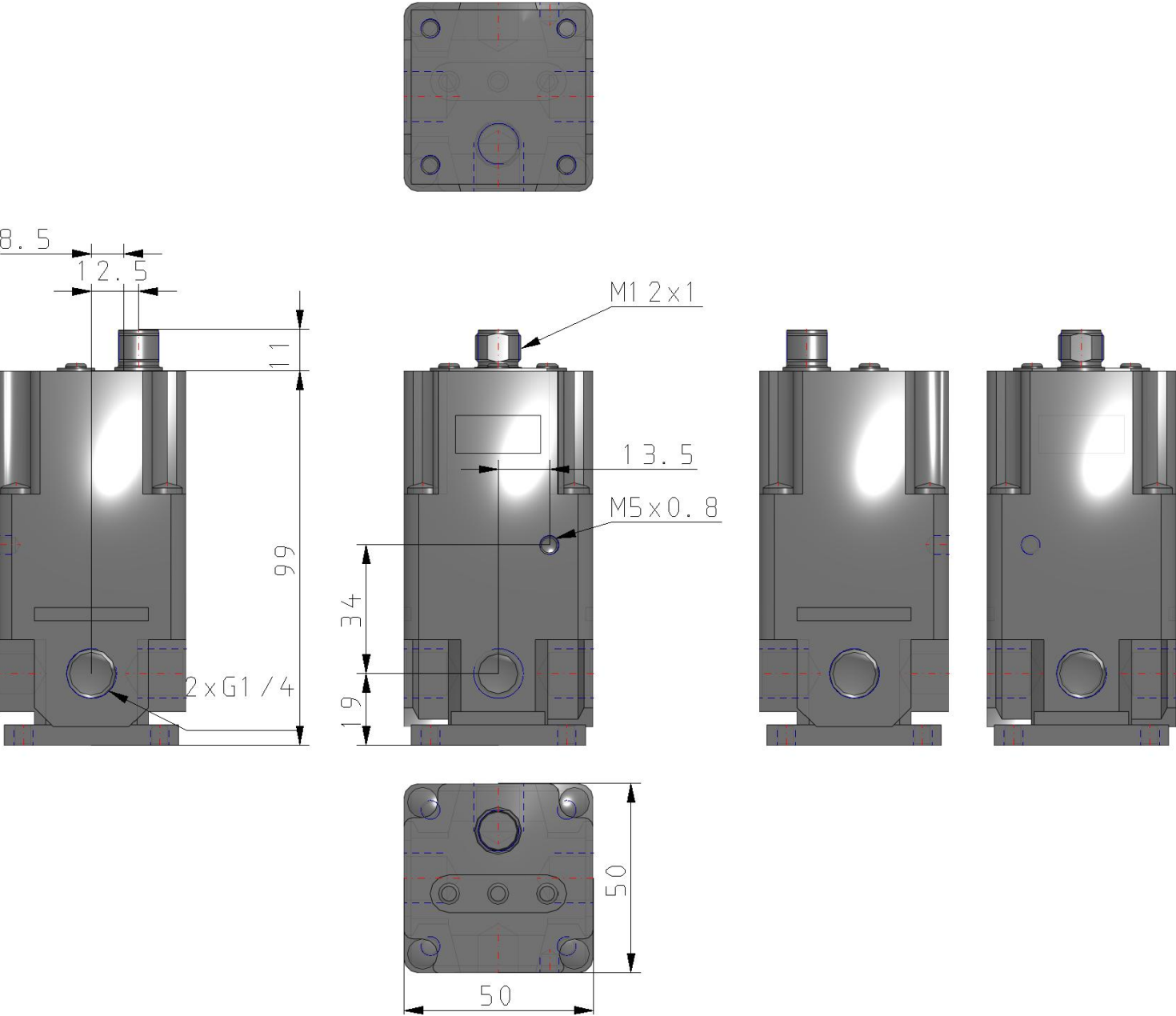
Electro-pneumatic regulator

Standard specifications

Power Voltage	0 (DC24V)
Input Signal	3 (Voltage Style 0~10VDC)
Monitor Output	1 (Analog Output 1~5VDC)
Thread	F (G [PF])
Accessory	None
Cable Connector	N (w/o Cable Connector)
Suffix	5
Pressure medium	Compressed air
Maximum temperature of pressure medium	50 °C
Minimum temperature of pressure medium	0 °C [without condensation]
Maximum operating pressure	-101 kPa
Minimum operating pressure	-13.3.kPa
Operating pressure for max. vacuum	-101 kPa
Maximum ambient temperature	50 °C
Minimum ambient temperature	0 °C
Approvals	CE;UL
Protection class with connector	IP65
Number of pneumatic connections	3 pcs.
Pneumatic input connection	G 1/4

Pneumatic output connection	G 1/4
Pneumatic exhaust connection	G 1/4
Initial value of pressure measuring range	-1.3 bis -80 kPa
Type of actuation	Electrically
Current consumption	0.12 A or less
Sensitivity	Within 0.2% (Full span)
Repeatability	Within $\pm 0.5\%$ (Full span)
Set pressure range	-1.3 ~ -80 kPa
Linearity	Within $\pm 1\%$ (Full span)
Power supply voltage	24 VDC $\pm 10\%$
Max. supply pressure	-101 kPa
Min. supply pressure	Set pressure -13.3 kPa
Display	$\pm 2\%$ F.S. ± 1 digit
Temperature characteristics	Within $\pm 0.12\%$ (Full span)/C
Display unit	kPa
Hysteresis	Within 0.5% (Full span)
Input signal Voltage type	0 ~ 10 VDC
Input impedance Voltage type	Approx. 6.5 k Ω
Output signal Analogue	1 to 5 VDC (Output impedance: Approximately 1 k Ω) Output accuracy within $\pm 6\%$ (Full span)
Weight	0.350 Kg

Dimensions



Additional information

Catalogue	ITV-G_EU.pdf
Declaration of conformity	DoC_ITVx_TF00023-B.pdf newDoC_ITV2_TF1Y002EN.pdf newDoC_ITV2000_3000_TF1Y106EN.pdf newDoC_ITV2000_3000_TF1V093EN.pdf
Installation manuals	IM_ITV2-IL-TF2Z014EN.pdf IMM_ITV3000_54GB-A.PDF IMM_ITVx_TF112GB-A.pdf
Operation manuals	OM_ITV2_CC-Link_EN-B.pdf OM_ITV2_OM00068EN-C.pdf om_itv000_om005en-e.pdf OM_ITV2_RS-232C_EN.pdf OM_ITV2_OM00109EN-C.pdf OM_ITV2_DeviceNet_EN-C.pdf OM_ITV2_OM00112EN-C.pdf OM_ITV2_PROFIBUS-DP_EN-A.pdf