

Electro-Pneumatic Regulator ITV Series

Parameter specification

Model		ITV101	ITV103	ITV105
		ITV201	ITV203	ITV205
		ITV301	ITV303	ITV305
Minimum supply pressure		setting pressure +0.1MPa		
Maximum supply pressure		0.2MPa	1.0MPa	
Set pressure range		0.005~0.1MPa	0.005~0.5MPa	0.005~0.9MPa
Power Supply	voltage	DC24V±10%		
	current consumption	mains input DC24V:0.12A or less		
input signal	current ¹⁾	DC4~20mA, DC0~20mA(confluent)		
	voltage	DC0~5V、DC0~10V		
	preset input	4 point(-COM)、16point(COM unpolarized)		
input impedance	current	250Ω or less		
	voltage	≈6.5KΩ		
	preset input	≈4.7KΩ(24VDC)		
output signal ²⁾ (Monitor output)	analog output	DC1~5V(Load impedance : 1KΩ or more) DC4~20mA (confluent) (Load impedance: 250Ω or less)		
	switched output	NPN open collector output : 30V, 80mA max. PNP open collector output : 80mA max.		
linearity		±1%F.S. or less		
sluggish		0.5%F.S. or less		
repeatability		±0.5%F.S. or less		
sensitivity		0.2%F.S. or less		
temperature characteristic		±0.12%F.S./°C or less		
Output pressure indication ⁴⁾	precision	±2%F.S.±1digit or less		
	the smallest unit	MPa:0.001、kgf/cm²:0.01、bar0.01、psi:0.1、kpa:1		
Ambient fluid temperature		0~50℃		
Protective construction		≈1P65		
weight	ITV10□	250g		
	ITV20□	350g		
	ITV30□	645g		

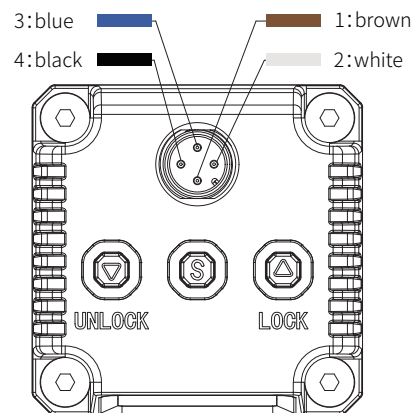
- 1) 2-wire 4~20mA is not available, supply voltage (DC24V) is necessary.
2) One of analog output and switch output can be selected. For switching output, either one of NPN output and PNP output can be selected.
3) The pressure range is 0.9MPa with a minimum unit of 1psi.
4) The above characteristics are limited to static, and the pressure will change when compressed air is consumed on the output side.

Wiring mode

⚠ Notice

- ① If cables are incorrectly routed, they may be damaged. Exercise caution when performing this operation.
- ② Please use sufficient capacity and small fluctuation DC power supply.
- ③ Plug and remove the connector before cutting off the power supply.
- ④ Since the right-angle cable connector itself cannot be rotated, it must not be rotated.

No	Colour	Normal	Communication
1	 brown	DC24V	
2	 white	Input signal	RS485A
3	 blue	GND	
4	 black	Monitor output	RS485B



Note: The color of the wire refers to the connection when using the option attachment cable.