

Made to Order Specifications 5

Please contact SMC for detailed dimensions, specifications, and lead times.



7 With Alarm Output

Alarm is output if the set pressure is not reached or maintained for 5 seconds or more.

Application examples: Pressure management for thrust control, etc.

Model **ITV 3 0 1 0 - 0 2 2 S - X420**

1	1000 type
2	2000 type
3	3000 type

Pressure range

1	0.1 MPa
3	0.5 MPa
5	0.9 MPa

Power supply voltage

0	24 VDC
1	12 to 15 VDC

Input signal

0	Current type 4 to 20 mA DC (Sink type)
1	Current type 0 to 20 mA DC (Sink type)
2	Voltage type 0 to 5 VDC
3	Voltage type 0 to 10 VDC

Monitor output

2	Alarm output/NPN output
3	Alarm output/PNP output

Thread type

Nil	Rc
N	NPT
T	NPTF
F	G

Cable connector type

S	Straight type 3 m
L	Right angle type 3 m
N	Without cable connector

Bracket *

Nil	Without bracket
B	Flat bracket
C	L-bracket

* Bracket is included.

Port size

1	1/8 (1000 type)
2	1/4 (1000, 2000, 3000 type)
3	3/8 (2000, 3000 type)
4	1/2 (3000 type)

Pressure display unit

2 (Note)	MPa
3	kgf/cm ²
4 (Note)	bar
5	psi
5	kPa

With alarm output

Note Under Japan's new Measurement Act, this is only for overseas sales (SI units are to be used inside Japan).

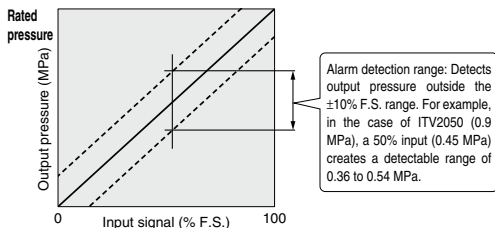


Figure 1. Alarm output range

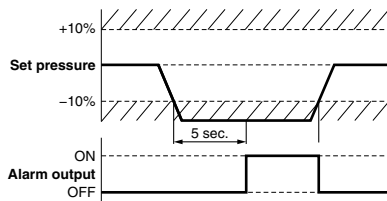


Figure 2. Relationship between output pressure and alarm output

Specifications

Fluid		Air	
Minimum supply pressure		Set pressure +0.1 MPa	
Maximum supply pressure		1.0 MPa (Pressure range 0.1 MPa type: 0.2 MPa) 1.5 MPa (Pressure range 0.1 MPa type: 0.3 MPa)	
Proof pressure	(Supply side)	1 MPa (Pressure range 0.1 MPa type: 0.2 MPa)	
	(Output side)	1 MPa (Pressure range 0.1 MPa type: 0.2 MPa)	
Set pressure range		1: 0.005 to 0.1 MPa, 3: 0.005 to 0.5 MPa, 5: 0.005 to 0.9 MPa	
Power supply voltage		0: 24 VDC $\pm 10\%$, 1: 12 to 15 VDC 0.12 A or less (24 VDC $\pm 10\%$ type) 0.18 A or less (12 to 15 VDC type)	
Current consumption		0: 4 to 20 mA, 1: 0 to 20 mA, 2: 0 to 5 VDC, 3: 0 to 10 VDC	
Input signal		Voltage type: Approx. 6.5 k Ω , Current type: 250 Ω or less	
Input impedance		Alarm output (NPN/PNP)	
Output signal		$\pm 1.0\%$ F.S. or less	
Linearity		0.5% F.S. or less	
Hysteresis		$\pm 0.5\%$ F.S. or less	
Repeatability		0.2% F.S. or less	
Sensitivity		$\pm 0.12\%$ F.S./ $^{\circ}$ C or less	
Temperature characteristics		$\pm 2\%$ F.S. ± 1 digit or less	
Output pressure display	Accuracy	MPa: 0.001, kgf/cm ² : 0.01, bar: 0.01, psi: 0.1, kPa: 1	
	Minimum unit	0 to 50 $^{\circ}$ C (No condensation)	
Ambient and fluid temperature		IP65	
Enclosure		ITV100□: Approx. 250 g, ITV200□: Approx. 350 g, ITV300□: Approx. 645 g (without brackets)	
Weight			

The above characteristics (specifications) are confined to the static state. When air is consumed on the output side, the pressure may fluctuate.