# **Specifications**

		ZSE40F (Compound pressure)	ZSE40 (Vacuum pressu	re) ISE40 (Positive pressure)	
Rated pressure range		-100.0 to 100.0kPa	0.0 to -101.3kPa	0.000 to 1.000MPa	
Operating pressure range/Set pressure range		-100.0 to 100.0kPa	10.0 to -101.3kPa	-0.100 to 1.000MPa	
Withstand pressure		500kPa		1.5MPa	
	kPa	0.1			
Set pressure resolution (Note 1)	MPa	<del></del>		0.001	
	kgf/cmX	0.001		0.01	
	bar	0.001		0.01	
	psi	0.02	0.01	0.1	
	mmHg	1			
	InHg	0.1 —			
Applicable fluid		Air, Non-corrosive/Non-flammable gas			
Power supply voltage		12 to 24VDC ±10%, Ripple (p-p) 10% or less			
Current consumption		55mA or less			
Switch output		NPN or PNP 2 outputs		DmA	
		Max. applied voltag		OVDC (with NPN output)	
		Residual voltage		V or less (with 80mA load current)	
Repeatability		±0.2% F.S. ±1digit or less			
Hysteresis mode  Window comparator mode		Variable 5 1 4 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
vvindow comparator mode					
Response time (with anti-chattering function)					
Output short circuit protection		Yes			
Display		3 1/2 digit LED display (sampling cycle: 5 times/sec.)			
Display accuracy		±2% F.S. ±1 digit or less (at ambient temperature of 25 ±3°C)			
Operation indicator light		Green LED (OUT1: Lights when ON), Red LED (OUT2: Lights when ON)			
Analog output (Note 2)		Output voltage: 1 to 5V ±5% F.S. or less (in rated pressure range) Linearity: ±1% F.S. or less Output impedance: Approx. 1k	Line	2.5% F.S. or less (in rated pressure range) earity: ±1% F.S. or less impedance: Approx. 1k	
Auto shift input (Note 3)		No-voltage input (reed or solid state), input 5ms or more			
Environmental resistance	Enclosure	IP65			
	Ambient temperature range	Operating: 0 to 50°C, Stored: –10 to 60°C (with no condensation or freezing)			
	Ambient humidity range	1 0			
	Withstand voltage	1000VAC for 1min. between lead wires and body			
	Insulation resistance	50M or more (at 500VDC) between lead wires and body			
	Vibration resistance	10 to 500Hz at the smaller of amplitude 1.5mm or acceleration 98m/sx(10G) in X, Y, Z directions for 2hrs. each (deenergized)			
	Impact resistance	980m/s <sup>X</sup> (100G) in X, Y, Z directions 3 times each (deenergized)			
Temperature characteristics		In a temperature range of 0 to 50°C, ±2% F.S. or less of pressure measured at 25°C			
Port size		01: R1/8, M5 x 0.8, T1: NPT1/8, M5 x 0.8, W1: Rc1/8 C4: With ø4 One-touch fitting, C6: With ø6 One-touch fitting, M5: M5 female threads			
Lead wires		5 wire oil resistant heavy duty cord (0.15mmx)			
Weight		01/T1 types approx. 60g, W1 type approx. 80g, C4/C6/M5 types approx. 92g (each including 0.6m lead wires)			

Note 1) Equipped with unit switching function

(Types without the unit switching function use SI units (kPa or MPa) only.)

Note 2) For ZSE40 (F)/ISE40-m -  $^{22}_{62}$ Note 3) For ZSE40 (F)/ISE40-m -  $^{70}_{70}$ 

Note 4) For ZSE40F (compound pressure) with "psi" indication, this is 0.03 to 0.04 psi.

Note 5) For ZSE40F (compound pressure) with "psi" indication, zero clear is in the range of ±0.01 psi.

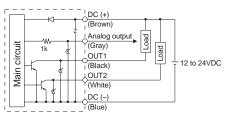
#### Note:

When equipped with auto shift function, the following ranges can be set.

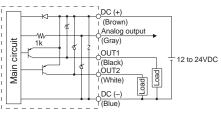
Set pressure range	Setting range
-100.0 to 100.0kPa	-100.0 to 100.0kPa
10.0 to -101.3kPa	-101.3 to 101.3kPa
- 0.1 to 1.000MPa	-1.000 to 1.000MPa

# Internal circuits and wiring examples

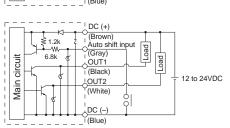
ZSE40 (F) ISE40-m -22 (L)-(M) With analog output



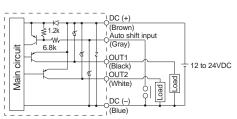
ZSE40 (F) ISE40-m -62 (L)-(M) With analog output



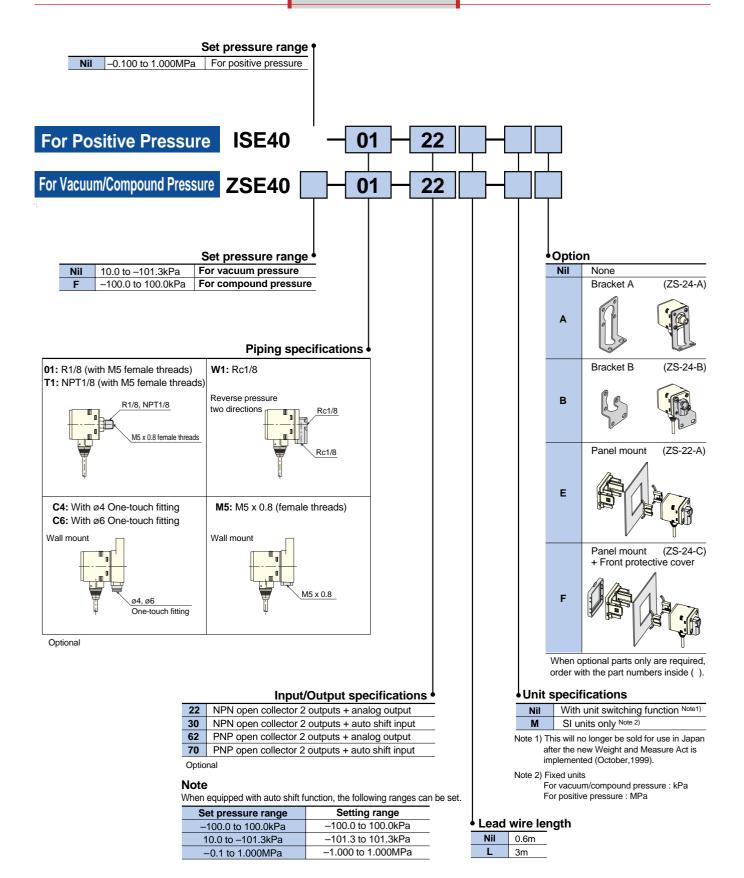
ZSE40 (F) ISE40-m -30 (L)-(M) With auto shift input



ZSE40 (F) ISE40-m -70 (L)-(M) With auto shift input



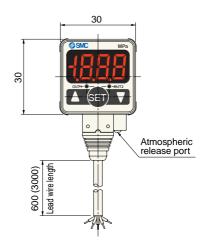
#### **How to Order**

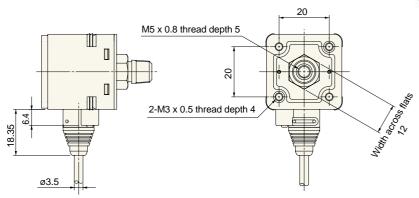


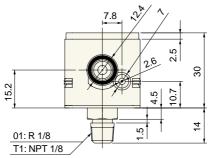
# Dimensions

### ZSE40(F)/ISE40-01



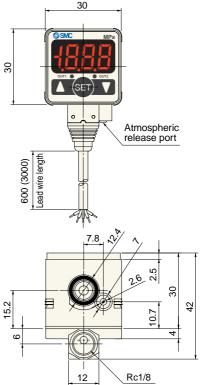


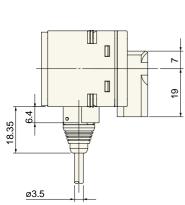


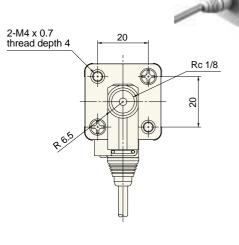


For splash proof use (IP65), insert an air tube into the atmospheric release port. (Refer to Specific Product Precautions 4 on the back cover for details.)

## ZSE40(F)/ISE40-W1







For splash proof use (IP65), insert an air tube into the atmospheric release port. (Refer to Specific Product Precautions 4 on the back cover for details.)