ZT67-W02 zt17 Detachable Digital Indicator

Constant Output

ZT17 Pressure Transducer (1.125 surface mounting interface)

Outline

We have developed this product to be compatible with 1.125 surface mounting interface, along with the ultra-clean specification pressure transmitters and digital pressure gauges that are often used for semiconductor gas delivery.

The sensors and indicator panel of the digital pressure gauge are detachable, contributing to the power-saving ability of the surface-mounting interface.

Features

ZT67 Detachable Digital Indicator

The ZT67 Digital Indicator can be combined with the ZT17 Constant Output Pressure Transducer, and is a multi-functional product equipped with analog and comparator outputs.

ZT17 Constant Output Pressure Transducer
(1.125 surface mounting interface)
Taking maintainability into account, it maintains
the output from the pressure transducer as a
constant signal. It is installed via a one-touch type
connector, making it easy to attach and detach.

*Please confirm that material in contact with gas is suitable for it.

Detachable by one-touch



List of grade (Constant output ZT17)

Cleanliness These pressure transmitters have been assembled, calibrated, inspected and packaged in a clean room, paying special attention for maintaining cleanliness.

Grade Surface roughness of gas contact		UC (Ultra Clean)	EP (Electro Polishing)	GP (General Purpose)
		0.18μm Ra Avg., 0.7μm Rz Max.	0.18μm Ra Avg. 0.5μm Ra Avg	
Wetted	Pressure sensor	Co-Ni alloy	Co-Ni alloy SUS316L SUS316L DOUBLE MELT material SUS316L	
parts	Fitting	SUS316L DOUBLE MELT material		
Maxii allowable p		200% of rated pressure	150% of rat	ed pressure
Leak (Helium I	_	5 x 10 ⁻¹² Pa·m ³ /s and under	5 x 10 ⁻¹² Pa·m ³ /s and under	
Particle		Zero count for size $0.1\mu m$ or greater (In our inspection standard)	Zero count for size 0.1 µm or greater (In our inspection standard)	
Cleaning		Ultra clearance (Cleaning)	Ultra clearance (Cleaning)	Degreasing
Recommended gas *2		High-purity gas, semiconductor material gas, etc.	High-purity gas, semiconductor material gas, etc.	Purge gas, exhaust gas, etc.

^{*1} Allowable maximum pressure is the upper limit to which pressure may be temporarily increased while still allowing normal pressure to be resumed, when pressure levels return to the normal (Rated) range. It is not guaranteed to have no impact on functionality in the case of repeated pressure or static pressure increases lasting 10 minutes or more.

^{*2} Please confirm that the gas contact part material is suitable for the gas to be measured.

^{*}UC/EP Grade rises with triple packing (Filled with N2).

Specification 1

ZT67 Detachable Digital Indicator

Item		Description		
Pressure range		0 to 0.5MPa, 0 to 1MPa -0.1 to 0.5MPa, -0.1 to 1MPa		
Power source		12 to 24V DC ±10%		
Display accuracy*1		±(1.0%F.S.+1digit) at 23℃		
Comparator output Output Maximum rating: 30V DC, 80 mA DC Response speed: 2.5 ms and under (When no filter) Protection circuit: Short-circuit (Over-current) protection Deadband: Hysteresis mode (Variable) Window comparator mode (1% F.S. fixed)		Response speed: 2.5 ms and under (When no filter) Protection circuit: Short-circuit (Over-current) protection Deadband: Hysteresis mode (Variable)		
	Analog output (Option)	1 to 5V DC (Load resistance 10kΩ or greater) Output accuracy*1: $\pm 3.0\%$ F.S. at 23°C Response speed: 1 ms and under		
Consu	mption current	30 mA DC and under		
	ing temperature d humidity	-10 to 50°C, 35 to 85%RH (No freezing or condensation)		
Storag	ge temperature	-20 to 60°C (No freezing or condensation)		
Temper	ature coefficient	±0.1%F.S./°C (Zero, Span)		
Pres	sure display	3 1/2-digit LED (Character height:10 mm)		
Ca	able length	2 m only		
CE compliance		Applicable Standards: EN61326-1: 2013; EN61326-2-3: 2013 *Please use it to connect to the indoor power distribution network which is not affected by the lightning surge voltage and power supply system switching transients.		
	Display scaling	-1999 to 1999 digits with respect to the ratings range		
	Filter	Selectable among No filter, 10ms, 50ms, 200ms or 600ms		
Function	Holding function	Both the maximum value and the minimum value can be indicated, reset		
	Zero adjustment	Zero adjustment on the display by using ADJ key (MODE + DOWN key)		
	Key lock	Operation PB lock		
Enclosure		Indoor use		
С	onnection	One-touch connector Used with the combination of Constant Output ZT17 Pressure Transducer (Sold separately)		
	Weight	Approx. 130 g		

^{*1} Display and analog output accuracies include the effects of Linearity, Hysteresis and Repeatability.

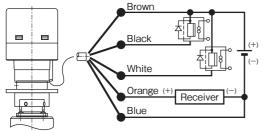
Specification 2

Constant Output ZT17 Pressure Transducer (1.125 surface mounting interface)

Item	Description	
Fluid	Process gasses for semiconductor industry	
Connection Mount size: 1.125 Integrated size UC Grade (W-Seal, C-Seal) EP/GP Grade (W-Seal) Pressure range 0 to 0.5MPa, 0 to 1MPa -0.1 to 0.5MPa, -0.1 to 1MPa		
		Accuracy*1 ±1.0%F.S. at 23°C (Standard) or ±0.5%F.S. at 23°C (Option)
Combinable indicator	ZT67 Detachable Digital Indicator (Sold separately)	
Enclosure	Indoor use	
Weight	Approx. 130 g	

^{*1} Accuracy includes the effects of Linearity, Hysteresis and Repeatability.

Wiring



Cable wiring color:

Brown ···· Power source (+) 24V DC Black ···· Open collector output (OUT 1) White ···· Open collector output (OUT 2)

Blue ····· Power source (-) COMMON

Orange ··· Analog output (+) (Option)

open conector output (001 2)

Cable:

		Conductor		Cable autor	Minimum
	Environmental temperature	Cross-section area (mm²)	Twisted conductors (pcs./mm)	Cable outer diameter (mm)	bending radius (mm)
PVC Cable	-60 to 90°C	0.18	7/0.18	φ4.0	17

*Cable length: 2 m only

Caution

Avoid installing in location where apparatus or atmosphere (excluding process media) could be cause of initiation of ignition or explosion under normal operating condition.

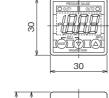
ZT67-W02 zt17

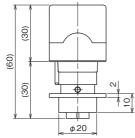
Detachable Digital Indicator

Dimensions

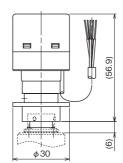
ZT67-W02

Unit: mm









UC/EP/GP Grade

<1.125 W-Seal>

10±0.1

φ23

Only UC Grade W-Seal with the bolt

Grade	Connection	Model number
UC	1.125 W-Seal (With bolt)	ZT17-ZW2

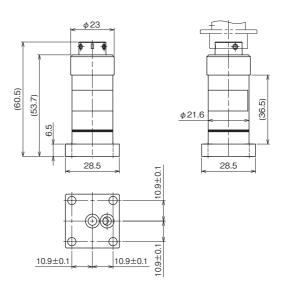
10±0.1

Grade	Connection	Model number
EP	1.125 W-Seal (Without bolt)	ZT17-ZFE

Grade	Connection	Model number
GP	1.125 W-Seal (Without bolt)	ZT17-ZFG

UC Grade

<1.125 C-Seal>

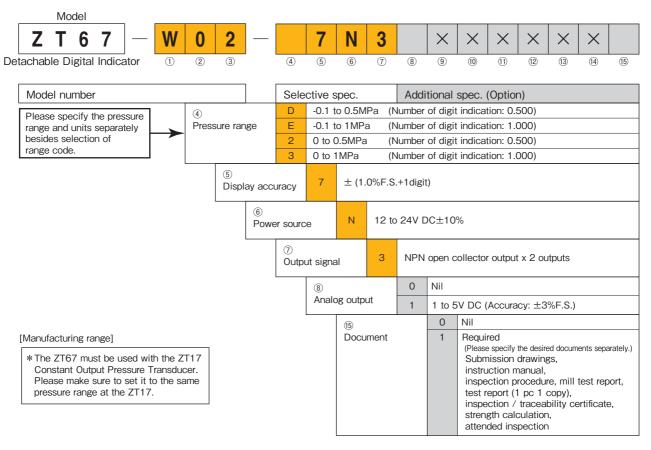


Grade	Connection	Model number
UC	1.125 C-Seal	ZT17-ZC2

Detachable Digital Indicator

Model number configuration

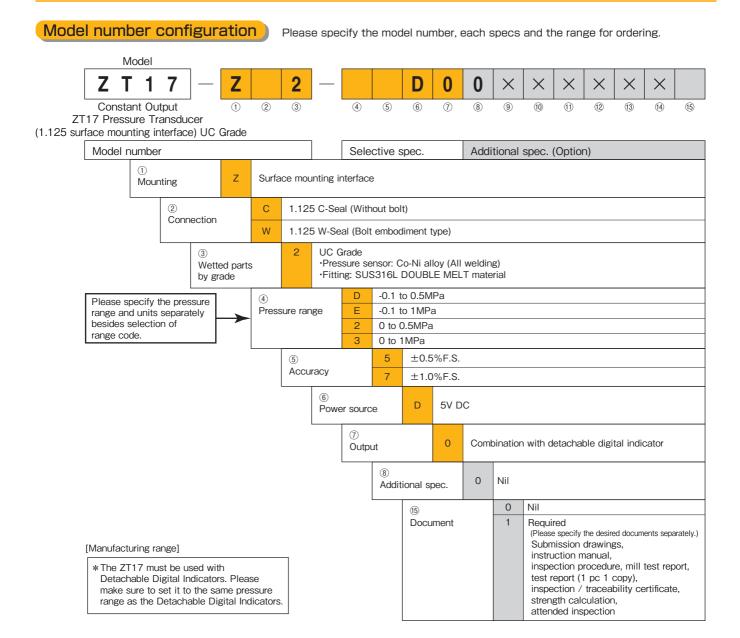
Please specify the model number, each specs and the range for ordering.



^{*}Specify "X" if there is no applicable specification.

Detachable Digital Indicator

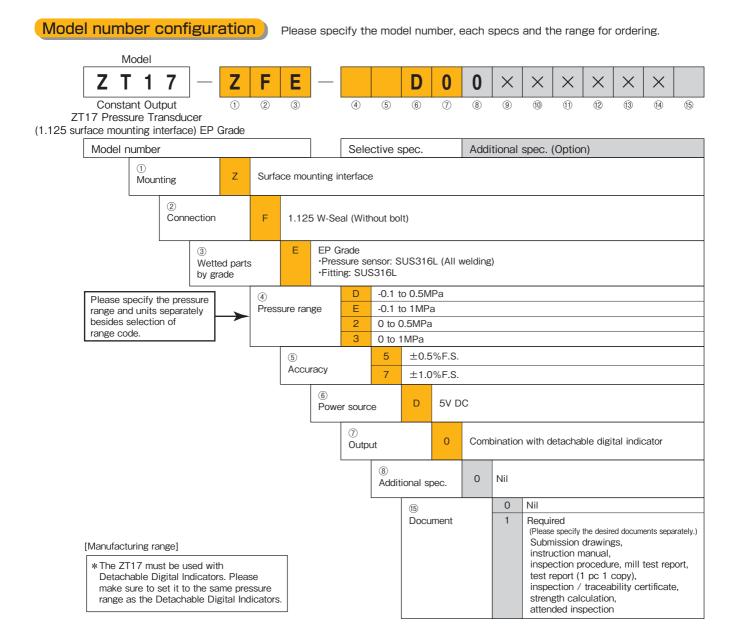
UC Grade



^{*}Specify "X" if there is no applicable specification.

Detachable Digital Indicator

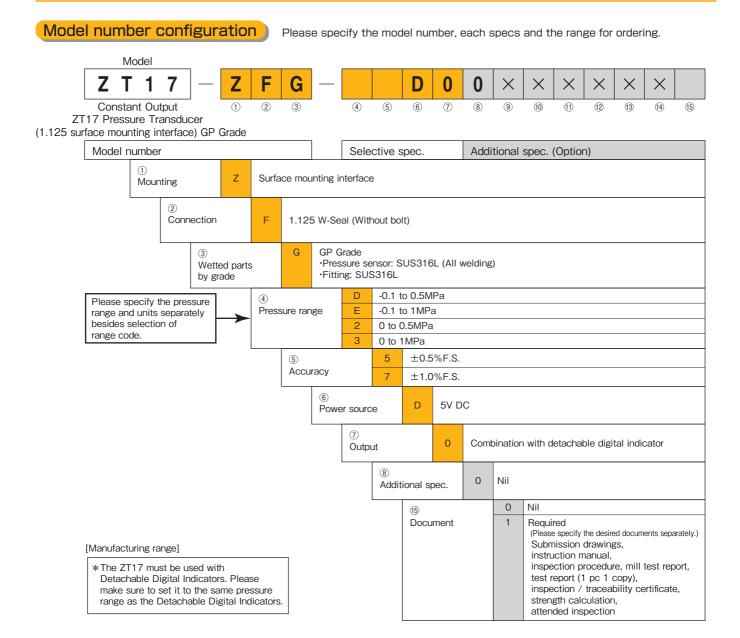
EP Grade



^{*}Specify "X" if there is no applicable specification.

Detachable Digital Indicator

GP Grade



^{*}Specify "X" if there is no applicable specification.